

**LAND APPLICATION SITE**

**JAMES H. GARTH**

**GRJHG 1 - 11**

**GREENE COUNTY**

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 1-22-18 between James Horace Garth referred to here as "Landowner", and Recyc Systems, Inc.; referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Greene, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

| Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges |               |               |               |
|--|---------------|---------------|---------------|
| Tax Parcel ID  | Tax Parcel ID | Tax Parcel ID | Tax Parcel ID |
| <u>29-A-16</u>   |               |               |               |
| <u>29-A-17</u>   |               |               |               |
| <u>29-A-14A</u>  |               |               |               |
|  |               |               |               |
|  |               |               |               |

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

|   |   |   |   |
|---|---|---|---|
| <u>Class B biosolids</u>  | <u>Water treatment residuals</u>                                    | <u>Food processing waste</u>  | <u>Other industrial sludges</u>                                     |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Horace Garth  
Landowner - Printed Name, Title

Horace Garth  
Signature

2342 Dundee Rd.  
Ruckersville, Va. 22968  
Mailing Address & Phone Number  
434-985-7225

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]  
Permittee - Authorized Representative  
Printed Name

[Signature]  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Greene

Landowner: James Horace Garth

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Horace Garth  
Landowner's Signature

1-22-18  
Date

Horace Garth  
Farm Operator Signature

2342 Dundee Rd.  
Ruckersville, Va. 22968  
Mailing Address & Phone Number

434-985-7225

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 2-1-18 between Marilyn Garth referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Greene, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

| Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges |               |               |               |
|--|---------------|---------------|---------------|
| Tax Parcel ID  | Tax Parcel ID | Tax Parcel ID | Tax Parcel ID |
| <u>29-A-16</u>   |               |               |               |
| <u>29-A-17</u>   |               |               |               |
| <u>29-A-14A</u>  |               |               |               |
|  |               |               |               |
|  |               |               |               |

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.  
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

|   |   |   |   |
|---|---|---|---|
| <u>Class B biosolids</u>  | <u>Water treatment residuals</u>                                    | <u>Food processing waste</u>  | <u>Other industrial sludges</u>                                     |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Marilyn Garth  
Landowner - Printed Name, Title

Marilyn Garth  
Signature

2342 Dundee Rd. Richersville, VA 2296  
Mailing Address & Phone Number  
434-985-7225

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Strunk  
Permittee - Authorized Representative  
Printed Name

Strunk  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Greene

Landowner: Marilyn Garth

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Marilyn Garth  
Landowner's Signature

2/1/18  
Date

Marilyn Garth  
Farm Operator Signature

2342 Dundee Rd., Richersville, VA, 22968  
Mailing Address & Phone Number  
434-985-7225

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 3-4-18 between Matt and Ashley Updike referred to here as "Landowner", and Recvc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Greene Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

| Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges |               |               |               |
|--|---------------|---------------|---------------|
| Tax Parcel ID  | Tax Parcel ID | Tax Parcel ID | Tax Parcel ID |
| <b>29-A-15</b>   |               |               |               |
|  |               |               |               |
|  |               |               |               |
|  |               |               |               |
|  |               |               |               |

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids    Water treatment residuals    Food processing waste    Other industrial sludges  
☒ Yes    ☐ No    ☒ Yes    ☐ No    ☒ Yes    ☐ No    ☒ Yes    ☐ No

Matt and Ashley Updike  
Ashley A. Updike  
Landowner - Printed Name, Title

Ashley Updike  
Ashley Updike  
Signature

2342 Dundee Rd, Ruckersville VA  
29968  
410-782-9510  
Mailing Address & Phone Number

**Permittee:**

Recvc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Matthew Updike  
Permittee - Authorized Representative  
Printed Name

Matthew Updike  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Racys Systems, Inc

County or City: Greene

Landowner: Matt & Ashley Updike

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:
 

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

Farm Operator Signature

Mailing Address & Phone Number

*Ashley Updike*

3-4-2018

*M. J. Updike*  
*Ashley Updike*

2342 Dundee Road  
Ruckersville VA 22968

410-782-9510

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 10-6-15 between Mary Ellen Garth referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Greene, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

| <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> |
|----------------------|----------------------|----------------------|----------------------|
| <u>29-A-14</u>       |                      |                      |                      |
|                      |                      |                      |                      |
|                      |                      |                      |                      |
|                      |                      |                      |                      |
|                      |                      |                      |                      |

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

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|                          |                                  |                              |                                 |
|--------------------------|----------------------------------|------------------------------|---------------------------------|
| <u>Class B biosolids</u> | <u>Water treatment residuals</u> | <u>Food processing waste</u> | <u>Other industrial sludges</u> |
|--------------------------|----------------------------------|------------------------------|---------------------------------|

|   |   |   |   |
|---|---|---|---|
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---|---|---|---|

Mary Ellen Garth  
Landowner - Printed Name, Title

Mary Ellen Garth  
Signature

2350 Dundee Rd.  
Rockersville, VA 2296  
Mailing Address & Phone Number

434-985-2866

**Permittee:**

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Stu  
Permittee - Authorized Representative  
Printed Name

Stu  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Greene

Landowner: Mary Ellen Garth

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. **Notification Signs:** I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. **Public Access**
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. **Crop Restrictions:**
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. **Livestock Access Restrictions:**

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Mary Ellen Garth  
Landowner's Signature


10-8-2015  
Date

Horace Garth  
Farm Operator Signature

2342 Dundee Rd. Ruckersville, Va.  
Mailing Address & Phone Number  
434-985-7225  
2296

# FARM DATA SHEET

|   |   |   |                        |
|---|---|---|------------------------|
| <b>SITE NAME:</b>   | James H. Garth                              | <b>COUNTY:</b>  | Greene                 |
| <b>OWNER:</b>   | See List Below                              | <b>OPERATOR:</b>  | James "Horace" Garth   |
| <b>OWNER'S</b>  | See List Below                              | <b>OPERATOR'S</b>   | 2342 Dundee Road       |
| <b>ADDRESS:</b>   |   | <b>ADDRESS:</b>   | Ruckersville, VA 22968 |
| <b>OWNER'S TELEPHONE:</b>   | See List Below                              | <b>OPERATOR'S TELEPHONE:</b>  | 434-985-7225           |
| <b>GENERAL FARM TYPE:</b>   | Pasture/ Hay/ Row Crop                      | <b>CELL PHONE:</b>  | 434-981-7600           |
| <b># CATTLE:</b>  | 100   | <b>EMAIL:</b>   | -                      |
| <b>LAGOON or SLURRY:</b>  | None  | <b>LATITUDE:</b>  | 38.311                 |
| <b>TOPO QUAD:</b>   | Rochelle & Stanardsville                    | <b>LONGITUDE:</b>   | 78.376                 |
| <b>COMMENTS:</b>  | <b>METHOD OF DETERMINATION:</b> Online Maps |   |                        |
| James Horace and Marilyn A. Garth<br>2342 Dundee Road<br>Ruckersville, VA 22968<br>434-981-7600 |   | Mary Wayland Garth<br>2350 Dundee Road<br>Ruckersville, VA 22968<br>434-985-2866              |                        |
|   |   | Ashley A. and Michael S. Updike<br>2342 Dundee Road<br>Ruckersville, VA 22968<br>410-782-9510 |                        |
|   |   |   |                        |
|   |   |   |                        |
|   |   |   |                        |

BB   
3-12-18

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

| Field Identification | DEQ Control ID   | Gross Acres | Environmentally Sensitive Soils             |                  |             |  | Hydro Map | Tax Map #           | FSA Tract #              |
|----------------------|------------------|-------------|---|------------------|-------------|--|-----------|---------------------|--------------------------|
|                      |                  |             | Water Table                                 | Bed Rock/Shallow | Surf/Leach  | Freq Flood   |           |                     |                          |
| GRJHG 1              | 51079-00084-0000 | 24.3        | Hb Oct.-May                                 | HxD              | Hb          | Hb Oct.-May  | RA 26     | 29-A-14A            | T 504<br>F 8             |
| GRJHG 2              | 51079-00085-0000 | 47.8        | Hb Oct.-May                                 | HxD              | Hb          | Hb Oct.-May  | RA 26     | 29-A-14A            | T 504<br>F 9, 10, 12, 13 |
| GRJHG 3              | 51079-00086-0000 | 29.0        | Hb Oct.-May                                 | AsD              | AsD,<br>Hb  | Hb Oct.-May  | RA 26     | 29-A-14A<br>29-A-16 | T 504<br>F 13, 20        |
| GRJHG 4              | 51079-00087-0000 | 22.2        | -   | AsD              | AsD         | -  | RA 26     | 29-A-14A<br>29-A-16 | T 504<br>F 20            |
| GRJHG 5              | 51079-00088-0000 | 15.5        | Sc Nov.-Apr.                                | AsD, AsE         | AsD,<br>AsE | Sc Dec.-May  | RA 26     | 29-A-17             | T 467<br>F 2             |
| GRJHG 6              | 51079-00084-0000 | 17.4        | CgB Dec.-May<br>Cn Nov.-Apr.                | -                | -           | Cs Feb.-May<br>Cv Nov.-May                               | RA 26     | 29-A-16<br>29-A-17  | T 467<br>F 4             |
| GRJHG 7              | 51079-00085-0000 | 35.1        | CgB Dec.-May<br>Hb Oct.-May<br>Sc Nov.-Apr. | AsD              | AsD,<br>Hb  | Cs Feb.-May<br>Cv Nov.-May<br>Hb Oct.-May<br>Sc Dec.-May | RA 25     | 29-A-14A<br>29-A-17 | T 504 F 6<br>T 467 F 1   |
| GRJHG 8              | 51079-00086-0000 | 23.2        | Sc Nov.-Apr.                                | AsD              | AsD         | Sc Dec.-May  | RA 26     | 29-A-17             | T 467<br>F 1             |
| GRJHG 9              | 51079-00087-0000 | 34.4        | Hb Oct.-May                                 | HxD, HxE         | Hb          | Cs Feb.-May<br>Hb Oct.-May                               | RA 25     | 29-A-14A<br>29-A-15 | T 504<br>F 2, 4, 5       |
| GRJHG 10             | 51079-00088-0000 | 31.6        | Hb Oct.-May                                 | HxD, HxE         | Hb          | Hb Oct.-May  | RA 25     | 29-A-14A<br>29-A-15 | T 504<br>F 1, 2, 3       |
| GRJHG 11             | 51079-00084-0000 | 5.9         | Sc Nov.-Apr.                                | -                | -           | Cs Feb.-May<br>Sc Dec.-May                               | RA 26     | 29-A-17             | T 467<br>F 3             |
| TOTAL ACRES IN SITE  |                  | 286.4       |   |                  |             |  |           |                     |                          |

8-25-2020

[illegible]

**FIELD CHANGES MARCH 2018**

**JAMES H. GARTH**

---

**PART OF OLD FIELD 6 IS NOW NEW  
FIELD 11.**

**PART OF OLD FIELD 3 IS NOW  
INCLUDED IN FIELD 6.**

Report Number: 17-258-0684

Account Number: 70594



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8455 Whiteshop Road  
Culpepper VA 22701

Grower: James Garth  
Greene Co

## SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 09/15/2017

Date Of Analysis: 09/18/2017

Date Of Report: 09/19/2017

| Sample ID<br>Field ID | Lab<br>Number | OM        | W/V           | ENR   | Phosphorus |      |     |      | Potassium | Magnesium | Calcium  | Sodium | pH        |      | Acidity   | C.E.C |           |      |            |                 |               |
|-----------------------|---------------|-----------|---------------|-------|------------|------|-----|------|-----------|-----------|----------|--------|-----------|------|-----------|-------|-----------|------|------------|-----------------|---------------|
|                       |               | %<br>Rate | Soil<br>Class | lbs/A | M3<br>ppm  | Rate | ppm | Rate | ppm       | Rate      | K<br>ppm | Rate   | Mg<br>ppm | Rate | Ca<br>ppm | Rate  | Na<br>ppm | Rate | Soil<br>pH | Buffer<br>Index | H<br>meq/100g |
| 3B                    | 25693         | 8.9<br>VH |               | 150   | 149        | VH   |     |      |           | 352       | VH       | 189    | H         | 1009 | L         |       |           | 5.5  | 6.67       | 2.6             | 10.1          |

| Sample ID<br>Field ID | Percent Base Saturation |         |         |         |        | Nitrate                  | Sulfur | Zinc     | Manganese | Iron      | Copper | Boron     | Soluble Salts |  |  |           |      |           |      |          |      |
|-----------------------|-------------------------|---------|---------|---------|--------|--------------------------|--------|----------|-----------|-----------|--------|-----------|---------------|--|--|-----------|------|-----------|------|----------|------|
|                       | K<br>%                  | Mg<br>% | Ca<br>% | Na<br>% | H<br>% | NO <sub>3</sub> N<br>ppm | Rate   | S<br>ppm | Rate      | Zn<br>ppm | Rate   | Mn<br>ppm | Rate          |  |  | Fe<br>ppm | Rate | Cu<br>ppm | Rate | B<br>ppm | Rate |
| 3B                    | 8.9                     | 15.6    | 50.0    |         | 25.7   |                          |        | 6.5      | H         | 48        | H      |           |               |  |  |           |      |           |      |          |      |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Pauc McGroary*

Pauc McGroary

Date Received: 09/15/2017

Date Of Report: 09/19/2017

## SOIL FERTILITY RECOMMENDATIONS

| Sample ID<br>Field ID | Intended Crop    | Yield Goal | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 3B                    | Adjust pH to 6.8 | 0          | 2.5            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |

## Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Report Number: 17-254-0554

Account Number: 70594



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Susan Trumbo  
8455 Whiteshop Road  
Culpeper VA 22701

Grower: James Garth  
Greene Co

## SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 09/11/2017

Date Of Analysis: 09/12/2017

Date Of Report: 09/12/2017

| Sample ID<br>Field ID | Lab<br>Number           | OM         | W/V           | ENR     | Phosphorus     |                               |               | Potassium      | Magnesium      | Calcium        | Sodium         | pH            |                  | Acidity       | C.E.C    |
|-----------------------|-------------------------|------------|---------------|---------|----------------|-------------------------------|---------------|----------------|----------------|----------------|----------------|---------------|------------------|---------------|----------|
|                       |                         | %<br>Rate  | Soil<br>Class | lbs/A   | M3<br>ppm Rate | ppm                           | Rate          | K<br>ppm Rate  | Mg<br>ppm Rate | Ca<br>ppm Rate | Na<br>ppm Rate | Soil<br>pH    | Buffer<br>Index  | H<br>meq/100g | meq/100g |
| 3A                    | 23700                   | 38.4<br>VH |               | 150     | 84 H           |                               |               | 74 L           | 83 M           | 776 M          |                | 5.4           | 6.74             | 1.9           | 6.7      |
| 6A                    | 23701                   | 55.4<br>VH |               | 150     | 103 VH         | 110                           |               | 51 VL          | 60 L           | 696 M          | 3.9            | 5.5           | 6.79             | 1.4           | 5.5      |
| 6B                    | 23702                   | 5.7<br>H   |               | 150     | 117 VH         |                               |               | 227 VH         | 167 M          | 1378 H         |                | 6.4           | 6.84             | 0.9           | 9.8      |
| Sample ID<br>Field ID | Percent Base Saturation |            |               |         |                | Nitrate                       | Sulfur        | Zinc           | Manganese      | Iron           | Copper         | Boron         | Soluble Salts    |               |          |
|                       | K<br>%                  | Mg<br>%    | Ca<br>%       | Na<br>% | H<br>%         | NO <sub>3</sub> N<br>ppm Rate | S<br>ppm Rate | Zn<br>ppm Rate | Mn<br>ppm Rate | Fe<br>ppm Rate | Cu<br>ppm Rate | B<br>ppm Rate | SS<br>ms/cm Rate |               |          |
| 3A                    | 2.8                     | 10.3       | 57.9          |         | 28.4           |                               |               | 4.3 H          | 25 H           |                |                |               |                  |               |          |
| 6A                    | 2.4                     | 9.1        | 63.3          |         | 25.5           |                               |               | 4.5 H          | 20 M           |                |                |               |                  |               |          |
| 6B                    | 5.9                     | 14.2       | 70.3          |         | 9.2            |                               |               | 3.9 H          | 55 VH          |                |                |               |                  |               |          |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc

by: *Paucic McGroary*

Paucic McGroary

Report Number: 17-254-0554

Account Number: 70594

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Send To: Recyc Systems Inc  
Susan Trumbo  
8455 Whiteshop Road  
Culpeper VA 22701

Grower: James Garth  
Greene Co

Date Received: 09/11/2017

Date Of Report: 09/12/2017

**SOIL FERTILITY RECOMMENDATIONS**

| Sample ID<br>Field ID | Intended Crop    | Yield Goal | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 3A                    | Adjust pH to 6.8 | 0          | 2.3            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 6A                    | Adjust pH to 6.8 | 0          | 2.0            |                       |  |                                    | 9                       |                     |                    | 2                       |                    |                      |                    |
| 6B                    | Adjust pH to 6.8 | 0          | 1.0            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |

**Comments:****Sample(s) : 6A Crop: Adjust pH to 6.8**

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Report Number: 15-240-0520

Account Number: 70594



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Grower: JAMES GARTH  
GREENE CO  
GRJHG

Submitted By: BB

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 08/28/2015

Date Of Analysis: 08/31/2015

Date Of Report: 09/01/2015

| Sample ID<br>Field ID | Lab<br>Number | Organic Matter |      |              | Phosphorus       |      |                |      | Potassium |      | Magnesium |      | Calcium   |      | Sodium    |      | pH         |                 | Acidity       | C.E.C    |
|-----------------------|---------------|----------------|------|--------------|------------------|------|----------------|------|-----------|------|-----------|------|-----------|------|-----------|------|------------|-----------------|---------------|----------|
|                       |               | %              | Rate | ENR<br>lbs/A | Mehlich 3<br>ppm | Rate | Reserve<br>ppm | Rate | K<br>ppm  | Rate | Mg<br>ppm | Rate | Ca<br>ppm | Rate | Na<br>ppm | Rate | Soil<br>pH | Buffer<br>Index | H<br>meq/100g | meq/100g |
| 1                     | 06505         | 5.0            | H    | 138          | 104              | VH   |                |      | 86        | L    | 81        | L    | 1328      | H    |           |      | 6.1        | 6.81            | 1.2           | 8.7      |
| 3A                    | 06506         | 6.1            | H    | 150          | 82               | H    |                |      | 265       | VH   | 193       | H    | 797       | L    |           |      | 5.5        | 6.71            | 2.2           | 8.4      |
| 3B                    | 06508         | 8.1            | VH   | 150          | 149              | VH   |                |      | 450       | VH   | 292       | H    | 1208      | M    |           |      | 5.8        | 6.70            | 2.3           | 11.9     |
| 4                     | 06509         | 5.3            | H    | 141          | 157              | VH   |                |      | 200       | VH   | 136       | M    | 1491      | H    |           |      | 6.4        | 6.84            | 0.9           | 10.0     |
| 5                     | 06510         | 5.8            | H    | 150          | 82               | H    |                |      | 113       | M    | 128       | L    | 1747      | H    |           |      | 6.4        | 6.83            | 1.0           | 11.1     |

| Sample ID<br>Field ID | Percent Base Saturation |         |         |         |        | Nitrate                  | Sulfur   | Zinc      | Manganese | Iron      | Copper    | Boron    | Soluble Salts | Chloride  | Aluminum  |
|-----------------------|-------------------------|---------|---------|---------|--------|--------------------------|----------|-----------|-----------|-----------|-----------|----------|---------------|-----------|-----------|
|                       | K<br>%                  | Mg<br>% | Ca<br>% | Na<br>% | H<br>% | NO <sub>3</sub> N<br>ppm | S<br>ppm | Zn<br>ppm | Mn<br>ppm | Fe<br>ppm | Cu<br>ppm | B<br>ppm | SS<br>ms/cm   | Cl<br>ppm | Al<br>ppm |
| 1                     | 2.5                     | 7.8     | 76.3    |         | 13.8   |                          |          | 3.6       | H         | 17        | M         |          |               |           |           |
| 3A                    | 8.1                     | 19.1    | 47.4    |         | 25.9   |                          |          | 3.5       | H         | 42        | H         |          |               |           |           |
| 3B                    | 9.7                     | 20.4    | 50.8    |         | 19.0   |                          |          | 5.2       | H         | 47        | H         |          |               |           |           |
| 4                     | 5.1                     | 11.3    | 74.6    |         | 8.9    |                          |          | 4.5       | H         | 40        | H         |          |               |           |           |
| 5                     | 2.6                     | 9.6     | 78.7    |         | 8.9    |                          |          | 3.8       | H         | 34        | H         |          |               |           |           |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucie McGroary*

Paucie McGroary

Report Number: 15-240-0520

Account Number: 70594



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*"Every acre...Every year."™*

Submitted By: BB

Grower: JAMES GARTH  
GREENE CO  
GRJHG

Date Received: 08/28/2015

Date Of Report: 09/01/2015

**SOIL FERTILITY RECOMMENDATIONS**

| Sample ID<br>Field ID | Intended Crop    | Yield Goal | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 1                     | Adjust pH to 6.8 | 0          | 1.3            |                       |  |                                    | 0                       |                     |                    | 2                       |                    |                      |                    |
| 3A                    | Adjust pH to 6.8 | 0          | 2.3            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 3B                    | Adjust pH to 6.8 | 0          | 2.3            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 4                     | Adjust pH to 6.8 | 0          | 1.0            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 5                     | Adjust pH to 6.8 | 0          | 1.0            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |

**Comments:**

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Grower: JAMES GARTH  
GREENE CO  
GRJHG

Submitted By: BB

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 08/28/2015

Date Of Analysis: 08/31/2015

Date Of Report: 09/01/2015

| Sample ID<br>Field ID | Lab<br>Number | Organic Matter |      |              | Phosphorus       |      |                |      | Potassium |      | Magnesium |      | Calcium   |      | Sodium    |      | pH         |                 | Acidity       |  | C.E.C |
|-----------------------|---------------|----------------|------|--------------|------------------|------|----------------|------|-----------|------|-----------|------|-----------|------|-----------|------|------------|-----------------|---------------|--|-------|
|                       |               | %              | Rate | ENR<br>lbs/A | Mehlich 3<br>ppm | Rate | Reserve<br>ppm | Rate | K<br>ppm  | Rate | Mg<br>ppm | Rate | Ca<br>ppm | Rate | Na<br>ppm | Rate | Soil<br>pH | Buffer<br>Index | H<br>meq/100g |  |       |
| 6                     | 06511         | 3.2            | M    | 104          | 129              | VH   |                |      | 53        | VL   | 87        | L    | 1012      | M    |           |      | 5.8        | 6.79            | 1.4           |  | 7.3   |
| 7                     | 06512         | 5.7            | H    | 150          | 137              | VH   |                |      | 189       | VH   | 197       | H    | 1185      | M    |           |      | 5.9        | 6.76            | 1.7           |  | 9.7   |
| 8                     | 06513         | 6.1            | H    | 150          | 78               | H    |                |      | 316       | VH   | 166       | M    | 1149      | M    |           |      | 5.8        | 6.74            | 1.9           |  | 9.8   |

| Sample ID<br>Field ID | Percent Base Saturation |         |         |         |        | Nitrate                  |      | Sulfur   |      |  | Zinc      |      | Manganese |      | Iron      |      | Copper    |      | Boron    |      | Soluble Salts |      | Chloride  |      | Aluminum  |  |
|-----------------------|-------------------------|---------|---------|---------|--------|--------------------------|------|----------|------|--|-----------|------|-----------|------|-----------|------|-----------|------|----------|------|---------------|------|-----------|------|-----------|--|
|                       | K<br>%                  | Mg<br>% | Ca<br>% | Na<br>% | H<br>% | NO <sub>3</sub> N<br>ppm | Rate | S<br>ppm | Rate |  | Zn<br>ppm | Rate | Mn<br>ppm | Rate | Fe<br>ppm | Rate | Cu<br>ppm | Rate | B<br>ppm | Rate | SS<br>ms/cm   | Rate | Cl<br>ppm | Rate | Al<br>ppm |  |
| 6                     | 1.9                     | 9.9     | 69.3    |         | 19.1   |                          |      |          |      |  | 4.1       | H    | 27        | H    |           |      |           |      |          |      |               |      |           |      |           |  |
| 7                     | 5.0                     | 16.9    | 61.1    |         | 17.2   |                          |      |          |      |  | 5.3       | H    | 31        | H    |           |      |           |      |          |      |               |      |           |      |           |  |
| 8                     | 8.3                     | 14.1    | 58.6    |         | 19.0   |                          |      |          |      |  | 4.8       | H    | 21        | H    |           |      |           |      |          |      |               |      |           |      |           |  |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 15-240-0520

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: RECYC SYSTEMS INC  
SUSAN TRUMBO  
8455 WHITESHOP RD  
CULPEPER VA 22701

*"Every acre...Every year."™*

Submitted By: BB

Grower: JAMES GARTH  
GREENE CO  
GRJHG

Date Received: 08/28/2015

Date Of Report: 09/01/2015

**SOIL FERTILITY RECOMMENDATIONS**

| Sample ID<br>Field ID | Intended Crop    | Yield Goal | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 6                     | Adjust pH to 6.8 | 0          | 1.8            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 7                     | Adjust pH to 6.8 | 0          | 1.8            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |
| 8                     | Adjust pH to 6.8 | 0          | 2.0            |                       |  |                                    | 0                       |                     |                    | 0                       |                    |                      |                    |

**Comments:**

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Page 1 of 5  
Report Number: 14-107-0517  
Account Number: 70127



# A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: AUGUSTA COOP FARM BUREAU  
POB 36  
SCOTTSVILLE VA 24590

Grower:  
HORACE GARTH

Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 04/17/2014

Date Of Analysis: 04/18/2014

Date Of Report: 04/18/2014

| Sample ID<br>Field ID | Lab<br>Number | Organic Matter |      |              | Phosphorus       |      |                |      | Potassium |      | Magnesium |      | Calcium   |      | Sodium    |      | pH         |                 | Acidity       | C.E.C    |
|-----------------------|---------------|----------------|------|--------------|------------------|------|----------------|------|-----------|------|-----------|------|-----------|------|-----------|------|------------|-----------------|---------------|----------|
|                       |               | %              | Rate | ENR<br>lbs/A | Mehlich 3<br>ppm | Rate | Reserve<br>ppm | Rate | K<br>ppm  | Rate | Mg<br>ppm | Rate | Ca<br>ppm | Rate | Na<br>ppm | Rate | Soil<br>pH | Buffer<br>Index | H<br>meq/100g | meq/100g |
| RED 14                | 02998         | 4.1            | M    | 117          | 53               | H    |                |      | 95        | L    | 128       | M    | 1648      | H    |           |      | 6.4        |                 | 0.9           | 10.5     |
| BH                    | 02999         | 5.2            | H    | 132          | 133              | VH   |                |      | 210       | H    | 240       | M    | 2464      | H    |           |      | 6.9        |                 | 0.2           | 15.1     |
| 230                   | 03000         | 3.5            | M    | 109          | 175              | VH   |                |      | 247       | VH   | 135       | M    | 888       | M    |           |      | 5.7        | 6.76            | 1.7           | 7.9      |
| RD25<br>GJG-1         | 03001         | 5.2            | H    | 139          | 133              | VH   |                |      | 97        | L    | 90        | L    | 1690      | H    |           |      | 6.4        |                 | 0.9           | 10.4     |
| BTM18                 | 03002         | 2.7            | M    | 95           | 85               | H    |                |      | 54        | VL   | 57        | L    | 1017      | H    |           |      | 6.1        | 6.84            | 0.9           | 6.6      |

| Sample ID<br>Field ID | Percent Base Saturation |         |         |         |        | Nitrate                       | Sulfur        | Zinc           | Manganese      | Iron           | Copper         | Boron         | Soluble Salts    | Chloride       | Aluminum  |
|-----------------------|-------------------------|---------|---------|---------|--------|-------------------------------|---------------|----------------|----------------|----------------|----------------|---------------|------------------|----------------|-----------|
|                       | K<br>%                  | Mg<br>% | Ca<br>% | Na<br>% | H<br>% | NO <sub>3</sub> N<br>ppm Rate | S<br>ppm Rate | Zn<br>ppm Rate | Mn<br>ppm Rate | Fe<br>ppm Rate | Cu<br>ppm Rate | B<br>ppm Rate | SS<br>ms/cm Rate | Cl<br>ppm Rate | Al<br>ppm |
| RED 14                | 2.3                     | 10.2    | 78.4    |         | 8.9    |                               |               |                |                |                |                |               |                  |                |           |
| BH                    | 3.6                     | 13.2    | 81.6    |         | 1.4    |                               |               |                |                |                |                |               |                  |                |           |
| 230                   | 8.0                     | 14.2    | 56.2    |         | 20.9   |                               |               |                |                |                |                |               |                  |                |           |
| RD25                  | 2.4                     | 7.2     | 81.3    |         | 8.9    |                               |               |                |                |                |                |               |                  |                |           |
| BTM18                 | 2.1                     | 7.2     | 77.0    |         | 13.7   |                               |               |                |                |                |                |               |                  |                |           |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 14-107-0517

Account Number: 70127



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# A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: AUGUSTA COOP FARM BUREAU  
POB 36  
SCOTTSVILLE VA 24590

Grower:  
HORACE GARTH

Farm ID:

Date Received: 04/17/2014

Date Of Report: 04/18/2014

## SOIL FERTILITY RECOMMENDATIONS

| Sample ID<br>Field ID | Intended Crop | Yield Goal<br>Tons | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|---------------|--------------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| RED 14                | Hay           | 4                  | 0.0            | 50                    | 30   | 180                                | 0                       |                     |                    |                         |                    |                      |                    |
| BH                    | Orchardgrass  | 5                  | 0.0            | 65                    | 0  | 40                                 | 0                       |                     |                    |                         |                    |                      |                    |
| 230                   | Corn          | 170                | 1.0            | 186                   | 0  | 40                                 | 0                       |                     |                    |                         |                    |                      |                    |
| RD25                  | Mix Grass Hay | 4                  | 0.0            | 50                    | 0  | 250                                | 0                       |                     |                    |                         |                    |                      |                    |
| BTM18                 | Mix Grass Hay | 4                  | 0.8            | 50                    | 30   | 250                                | 23                      |                     |                    |                         |                    |                      |                    |

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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*Paucic McGeary*

Paucic McGroary

Report Number: 14-176-0509

Account Number: 70594



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# A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC  
SUSAN TRUMBO  
8455 WHITESHOP RD  
CULPEPER VA 22701

Grower:  
JAMES GARTH/GRJHG  
GREENE CO

Submitted By: SD  
Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 06/25/2014

Date Of Analysis: 06/26/2014

Date Of Report: 06/26/2014

| Sample ID<br>Field ID | Lab<br>Number | Organic Matter |      |              | Phosphorus       |                 | Potassium |      | Magnesium |      | Calcium   |      | Sodium    |      | pH         |                 | Acidity       | C.E.C    |
|-----------------------|---------------|----------------|------|--------------|------------------|-----------------|-----------|------|-----------|------|-----------|------|-----------|------|------------|-----------------|---------------|----------|
|                       |               | %              | Rate | ENR<br>lbs/A | Mehlich 3<br>ppm | Reserve<br>Rate | K<br>ppm  | Rate | Mg<br>ppm | Rate | Ca<br>ppm | Rate | Na<br>ppm | Rate | Soil<br>pH | Buffer<br>Index | H<br>meq/100g | meq/100g |
| 2A                    | 22046         | 7.6            | VH   | 150          | 123              | VH              | 260       | VH   | 192       | M    | 1587      | M    |           |      | 5.7        | 6.66            | 2.7           | 12.9     |
| 2B                    | 22047         | 7.4            | VH   | 150          | 110              | VH              | 263       | VH   | 195       | M    | 1598      | M    |           |      | 5.7        | 6.66            | 2.7           | 13.0     |
| 9                     | 22048         | 8.0            | VH   | 150          | 100              | H               | 259       | VH   | 232       | M    | 1256      | L    |           |      | 5.3        | 6.53            | 4.0           | 12.9     |
| 10                    | 22049         | 6.1            | H    | 150          | 103              | VH              | 206       | VH   | 171       | M    | 1403      | M    |           |      | 6.1        | 6.79            | 1.4           | 10.4     |

| Sample ID<br>Field ID | Percent Base Saturation |         |         |         |        | Nitrate                  |      | Sulfur   |      | Zinc      |      | Manganese |      | Iron      |      | Copper    |      | Boron    |      | Soluble Salts |      | Chloride  |      | Aluminum  |
|-----------------------|-------------------------|---------|---------|---------|--------|--------------------------|------|----------|------|-----------|------|-----------|------|-----------|------|-----------|------|----------|------|---------------|------|-----------|------|-----------|
|                       | K<br>%                  | Mg<br>% | Ca<br>% | Na<br>% | H<br>% | NO <sub>3</sub> N<br>ppm | Rate | S<br>ppm | Rate | Zn<br>ppm | Rate | Mn<br>ppm | Rate | Fe<br>ppm | Rate | Cu<br>ppm | Rate | B<br>ppm | Rate | SS<br>ms/cm   | Rate | Cl<br>ppm | Rate | Al<br>ppm |
| 2A                    | 5.2                     | 12.4    | 61.5    |         | 21.1   |                          |      |          |      |           |      |           |      |           |      |           |      |          |      |               |      |           |      |           |
| 2B                    | 5.2                     | 12.5    | 61.5    |         | 21.1   |                          |      |          |      |           |      |           |      |           |      |           |      |          |      |               |      |           |      |           |
| 9                     | 5.1                     | 15.0    | 48.7    |         | 31.0   |                          |      |          |      |           |      |           |      |           |      |           |      |          |      |               |      |           |      |           |
| 10                    | 5.1                     | 13.7    | 67.5    |         | 13.7   |                          |      |          |      |           |      |           |      |           |      |           |      |          |      |               |      |           |      |           |

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 14-176-0509

Account Number: 70594



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# A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC  
SUSAN TRUMBO  
8455 WHITESHOP RD  
CULPEPER VA 22701

Grower:

JAMES GARTH/GRJHG  
GREENE CO

Submitted By: SD

Farm ID:

Date Received: 06/25/2014

Date Of Report: 06/26/2014

## SOIL FERTILITY RECOMMENDATIONS

| Sample ID<br>Field ID | Intended Crop    | Yield Goal | Lime<br>Tons/A | Nitrogen<br>N<br>lb/A | Phosphate<br>P <sub>2</sub> O <sub>5</sub><br>lb/A | Potash<br>K <sub>2</sub> O<br>lb/A | Magnesium<br>Mg<br>lb/A | Sulfur<br>S<br>lb/A | Zinc<br>Zn<br>lb/A | Manganese<br>Mn<br>lb/A | Iron<br>Fe<br>lb/A | Copper<br>Cu<br>lb/A | Boron<br>B<br>lb/A |
|-----------------------|------------------|------------|----------------|-----------------------|--|------------------------------------|-------------------------|---------------------|--------------------|-------------------------|--------------------|----------------------|--------------------|
| 2A                    | Adjust pH to 6.8 | 0          | 2.3            |                       |  |                                    | 0                       |                     |                    |                         |                    |                      |                    |
| 2B                    | Adjust pH to 6.8 | 0          | 2.3            |                       |  |                                    | 0                       |                     |                    |                         |                    |                      |                    |
| 9                     | Adjust pH to 6.8 | 0          | 3.2            |                       |  |                                    | 0                       |                     |                    |                         |                    |                      |                    |
| 10                    | Adjust pH to 6.8 | 0          | 1.5            |                       |  |                                    | 0                       |                     |                    |                         |                    |                      |                    |

### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet**  
**(Spring, 2018-Summer, 2020)**  
**James H. Garth**  
**Planner: John Doe**

Tract: 467 Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop                    | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |  |
|----------------------------|--------------------------------|------|-------------------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 2/GRJHG 5(N)               | 16/16                          | 2018 | Fescue grass hay<br>mt. | 70-40-85                   | 0/0                  |  |           |                               | 70-40-85                                 | N/A                     |                                 |       |  |
| 4/GRJHG 6(N)               | 20/20                          | 2018 | Fescue grass hay<br>mt. | 90-40-145                  | 0/0                  |  |           |                               | 90-40-145                                | N/A                     |                                 |       |  |
| 1/GRJHG 8(N)               | 22/22                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                   | N/A                     |                                 |       |  |
| 3/GRJHG 11(N)              | 6/6                            | 2018 | Hay/Pasture             | 120-80-170                 | 0/0                  |  |           |                               | 120-80-170                               | N/A                     |                                 |       |  |

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 504

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name  | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop                    | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>applied N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |  |
|-----------------------------|--------------------------------|------|-------------------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 8/GRJHG 1(N)                | 25/25                          | 2018 | Grass Pasture           | 50-0-80                    | 0/0                  |  |           |                               | 50-0-80                                    | N/A                     |                                 |       |  |
| 9, 10, 12,<br>13/GRJHG 2(N) | 34/34                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                     | N/A                     |                                 |       |  |
| 13, 20/GRJHG<br>3(1P)       | 28/28                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                     | 25                      |                                 |       |  |
| 20/GRJHG 4(1P)              | 22/22                          | 2018 | Fescue grass hay<br>mt. | 70-0-40                    | 0/0                  |  |           |                               | 70-0-40                                    | 43                      |                                 |       |  |
| 6/GRJHG 7(1P)               | 30/30                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                     | 25                      |                                 |       |  |
| 2, 4, 5/GRJHG 9(N)          | 25/25                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                     | N/A                     |                                 |       |  |
| 1, 2, 3/GRJHG<br>10(N)      | 29/29                          | 2018 | Grass Pasture           | 50-0-0                     | 0/0                  |  |           |                               | 50-0-0                                     | N/A                     |                                 |       |  |

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

**Soil Test Summary**

| Tract | Field    | Acre | Date      | P2O5           | K2O            | Lab      | Soil pH | Lime Date | rec. lime tons/Ac |
|-------|----------|------|-----------|----------------|----------------|----------|---------|-----------|-------------------|
| 467   | GRJHG 5  | 16   | 2015-Fa   | H (82 P ppm)   | M+ (113 K ppm) | A&L MIII | 6.4     |           |                   |
| 467   | GRJHG 6  | 20   | 2017-Fa   | H+ (110 P ppm) | H- (139 K ppm) | A&L MIII | 5.9     |           |                   |
| 467   | GRJHG 8  | 22   | 2015-Fa   | H (78 P ppm)   | VH (316 K ppm) | A&L MIII | 5.8     |           |                   |
| 467   | GRJHG 11 | 6    | [No Test] |                |                |          |         |           |                   |
| 504   | GRJHG 1  | 25   | 2015-Fa   | H+ (104 P ppm) | M (86 K ppm)   | A&L MIII | 6.1     |           |                   |
| 504   | GRJHG 2  | 34   | 2014-Su   | H+ (117 P ppm) | VH (262 K ppm) | A&L MIII | 5.7     |           |                   |
| 504   | GRJHG 3  | 28   | 2017-Fa   | VH (149 P ppm) | VH (352 K ppm) | A&L MIII | 5.5     |           |                   |
| 504   | GRJHG 4  | 22   | 2015-Fa   | VH (157 P ppm) | H+ (200 K ppm) | A&L MIII | 6.4     |           |                   |
| 504   | GRJHG 7  | 30   | 2015-Fa   | VH (137 P ppm) | H (189 K ppm)  | A&L MIII | 5.9     |           |                   |
| 504   | GRJHG 9  | 25   | 2014-Su   | H (100 P ppm)  | VH (259 K ppm) | A&L MIII | 5.3     |           |                   |
| 504   | GRJHG 10 | 29   | 2014-Su   | H+ (103 P ppm) | H+ (206 K ppm) | A&L MIII | 6.1     |           |                   |

### **Field Productivities for Major Crops**

| Tract Name | Tract/<br>Field | Field Name | Acres | Predominant Soil<br>Series | Corn | Small<br>Grain | Alfalfa       | Grass<br>Hay | Environmental Warnings    |
|------------|-----------------|------------|-------|----------------------------|------|----------------|---------------|--------------|---------------------------|
| 467        | 467/2           | GRJHG 5    | 16    | Dyke                       | IVa  | III            | III           | III          | High Leaching, High Slope |
|            | 467/4           | GRJHG 6    | 20    | Codorus                    | IIa  | II             | II            | II           |                           |
|            | 467/1           | GRJHG 8*   | 22    | Elioak                     | IVa  | III            | III           | II           |                           |
|            | 467/3           | GRJHG 11   | 6     | Suches                     | Ib   | II             | I             | I            |                           |
| 504        | 504/8           | GRJHG 1    | 25    | Elioak                     | IVb  | III            | III           | III          |                           |
|            | 504/9, 10,<br>1 | GRJHG 2    | 34    | Elioak                     | IVb  | III            | III           | III          |                           |
|            | 504/13,<br>20   | GRJHG 3*   | 28    | Hatboro                    | IVb  | III            | Not<br>Suited | IV           |                           |
|            | 504/20          | GRJHG 4    | 22    | Dyke                       | IVa  | III            | III           | III          | High Leaching, Poor Drain |
|            | 504/6           | GRJHG 7*   | 30    | Comus                      | IVa  | III            | III           | III          |                           |
|            | 504/2, 4,<br>5  | GRJHG 9*   | 25    | Hazel                      | IVb  | IV             | III           | IV           |                           |
|            | 504/1, 2,<br>3  | GRJHG 10*  | 29    | Elioak                     | IVb  | IV             | III           | IV           | Poor Drainage, Shallow so |
|            |                 |            |       |                            |      |                |               |              |                           |

\* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

### **Yield Range**

| Field<br>Productivity<br>Group | Corn Grain<br>Bu/Acre | Barley/Intensive<br>Wheat Bu/Acre | Std. Wheat<br>Bu/Acre | Alfalfa<br>Tons/Acre | Grass/Hay<br>Tons/Acre |
|--------------------------------|-----------------------|-----------------------------------|-----------------------|----------------------|------------------------|
| I                              | >170                  | >80                               | >64                   | >6                   | >4.0                   |
| II                             | 150-170               | 70-80                             | 56-64                 | 4-6                  | 3.5-4.0                |
| III                            | 130-150               | 60-70                             | 48-56                 | <4                   | 3.0-3.5                |
| IV                             | 100-130               | 50-60                             | 40-48                 | NA                   | <3.0                   |
| V                              | <100                  | <50                               | <40                   | NA                   | NA                     |

## Farm Summary Report

**Plan:** New Plan Spring, 2018 - Summer, 2020

**Farm Name:** James H. Garth

**Location:** Greene

**Specialist:** John Doe

**N-based Acres:** 176.6

**P-based Acres:** 79.5

**Tract Name:** 467

**FSA Number:** 467

**Location:** Greene

**Field Name:** GRJHG 5

**Total Acres:** 16.20 **Usable Acres:** 16.20

**FSA Number:** 2

**Tract:** 467

**Location:** Greene

**Slope Class:** C **Hydrologic Group:** C

**Riparian buffer width:** 0 ft

**Distance to stream:** 0 ft

### **Conservation Practices:**

Pasture (>75% cover)

### *P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

### **Soil Test Results:**

| DATE    | PH  | P           | K             |          | Lab |
|---------|-----|-------------|---------------|----------|-----|
| Fa-2015 | 6.4 | H(82 P ppm) | M+(113 K ppm) | A&L MIII |     |

### **Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
|---------|--------|-------------|

|    |      |                |
|----|------|----------------|
| 1  | AsD  | Ashe           |
| 1  | AsE  | Ashe           |
| 13 | DkB3 | Dyke           |
| 68 | DkC3 | Dyke           |
| 9  | EIB  | Elioak         |
| 8  | Sc   | Codorus Suches |

**Field Warnings:**

**Field Name:** GRJHG 6

Total Acres: 19.90 Usable Acres: 19.90

FSA Number: 4

Tract: 467

Location: Greene

Slope Class: A Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |               |          |     |
|---------|-----|---------------|---------------|----------|-----|
| DATE    | PH  | P             | K             |          | Lab |
| Fa-2017 | 5.9 | H+(110 P ppm) | H-(139 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 14      | CgB    | Chatuge     |
| 37      | Cn     | Codorus     |
| 35      | Cs     | Comus       |
| 4       | Cv     | Craigsville |
| 10      | UnA    | Unison      |

**Field Warnings:****Field Name: GRJHG 8**

Total Acres: 21.50 Usable Acres: 21.50

FSA Number: 1

Tract: 467

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

| DATE    | PH  | P           | K             |          | Lab |
|---------|-----|-------------|---------------|----------|-----|
| Fa-2015 | 5.8 | H(78 P ppm) | VH(316 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 18      | AsD    | Ashe           |
| 1       | DkB3   | Dyke           |
| 5       | DkC3   | Dyke           |
| 14      | EIB    | Elioak         |
| 23      | EIC    | Elioak         |
| 11      | EnC3   | Elioak         |
| 28      | MvB    | Meadowville    |
| 1       | Sc     | Codorus Suches |

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with perent slope in excess of 15%*

**Field Name:** GRJHG 11

Total Acres: 6.40 Usable Acres: 6.40

FSA Number: 3

Tract: 467

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|           |    |   |   |     |
|-----------|----|---|---|-----|
| DATE      | PH | P | K | Lab |
| [NO TEST] |    |   |   |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 4       | Cs     | Comus          |
| 6       | EIC    | Elioak         |
| 90      | Sc     | Codorus Suches |

**Field Warnings:**

**Tract Name:** 504

FSA Number: 504

Location: Greene

**Field Name:** GRJHG 1

Total Acres: 24.50 Usable Acres: 24.50  
FSA Number: 8  
Tract: 504  
Location: Greene  
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |             |          |     |
|---------|-----|---------------|-------------|----------|-----|
| DATE    | PH  | P             | K           |          | Lab |
| Fa-2015 | 6.1 | H+(104 P ppm) | M(86 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 1       | EIB    | Elioak      |
| 77      | EIC    | Elioak      |
| 2       | EnC3   | Elioak      |
| 6       | GIC    | Glenelg     |
| 5       | Hb     | Hatboro     |
| 1       | HxD    | Hazel       |
| 9       | MvB    | Meadowville |

**Field Warnings:**

**Field Name:** GRJHG 2

Total Acres: 34.20 Usable Acres: 34.20

FSA Number: 9, 10, 12, 13

Tract: 504

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |               |          |     |
|---------|-----|---------------|---------------|----------|-----|
| DATE    | PH  | P             | K             |          | Lab |
| Su-2014 | 5.7 | H+(117 P ppm) | VH(262 K ppm) | A&L Mill |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 16      | EIB    | Elioak      |
| 20      | EIC    | Elioak      |
| 37      | EnC3   | Elioak      |
| 1       | GIC    | Glenelg     |
| 8       | Hb     | Hatboro     |
| 7       | HxD    | Hazel       |
| 11      | MvB    | Meadowville |

**Field Warnings:**

**Field Name:** GRJHG 3

Total Acres: 28.00 Usable Acres: 28.00

FSA Number: 13, 20

Tract: 504

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |               |          |     |
|---------|-----|---------------|---------------|----------|-----|
| DATE    | PH  | P             | K             |          | Lab |
| Fa-2017 | 5.5 | VH(149 P ppm) | VH(352 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 26      | AsD    | Ashe        |
| 33      | DkC3   | Dyke        |
| 3       | EIB    | Elioak      |
| 39      | Hb     | Hatboro     |

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with potential for leaching based on soil texture or excessive drainage*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Soils with percent slope in excess of 15%*

**Field Name: GRJHG 4**

Total Acres: 22.00 Usable Acres: 22.00

FSA Number: 20

Tract: 504

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |               |          |     |
|---------|-----|---------------|---------------|----------|-----|
| DATE    | PH  | P             | K             |          | Lab |
| Fa-2015 | 6.4 | VH(157 P ppm) | H+(200 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL     | SOIL SERIES |
|---------|------------|-------------|
| 2       | AsD Ashe   |             |
| 46      | DkB3 Dyke  |             |
| 44      | DkC3 Dyke  |             |
| 8       | EIB Elioak |             |

**Field Warnings:**

**Field Name:** GRJHG 7

Total Acres: 29.50 Usable Acres: 29.50

FSA Number: 6

Tract: 504

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |              |          |     |
|---------|-----|---------------|--------------|----------|-----|
| DATE    | PH  | P             | K            |          | Lab |
| Fa-2015 | 5.9 | VH(137 P ppm) | H(189 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 9       | AsD    | Ashe           |
| 13      | CgB    | Chatuge        |
| 22      | Cs     | Cornus         |
| 17      | Cv     | Craigsville    |
| 10      | EIB    | Elioak         |
| 10      | EIC    | Elioak         |
| 16      | Hb     | Hatboro        |
| 3       | Sc     | Codorus Suches |

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

### Soils with potential for leaching based on soil texture or excessive drainage

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Soils with percent slope in excess of 15%*

**Field Name:** GRJHG 9

|              |         |                   |       |
|--------------|---------|-------------------|-------|
| Total Acres: | 25.00   | Usable Acres:     | 25.00 |
| FSA Number:  | 2, 4, 5 |                   |       |
| Tract:       | 504     |                   |       |
| Location:    |         | Greene            |       |
| Slope Class: | D       | Hydrologic Group: | D     |

Riparian buffer width: 0 ft

Distance to stream: 0 ft

### Conservation Practices:

Pasture (>75% cover)

### P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |              |               |          |     |
|---------|-----|--------------|---------------|----------|-----|
| DATE    | PH  | P            | K             |          | Lab |
| Su-2014 | 5.3 | H(100 P ppm) | VH(259 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 11      | Cs     | Comus       |
| 8       | DkC3   | Dyke        |
| 12      | EIB    | Elioak      |
| 18      | EIC    | Elioak      |
| 8       | GIC    | Glenelg     |
| 5       | Hb     | Hatboro     |
| 17      | HxD    | Hazel       |
| 20      | HxE    | Hazel       |

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

*Soils with percent slope in excess of 15%*

**Field Name: GRJHG 10**

Total Acres: 28.90 Usable Acres: 28.90

FSA Number: 1, 2, 3

Tract: 504

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

|         |     |               |               |          |     |
|---------|-----|---------------|---------------|----------|-----|
| DATE    | PH  | P             | K             |          | Lab |
| Su-2014 | 6.1 | H+(103 P ppm) | H+(206 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 45      | EIC    | Elioak      |
| 3       | EnD3   | Elioak      |
| 12      | GIC    | Glenelg     |
| 5       | GID    | Glenelg     |
| 1       | Hb     | Hatboro     |
| 17      | HxD    | Hazel       |
| 1       | HxE    | Hazel       |
| 17      | MvB    | Meadowville |

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

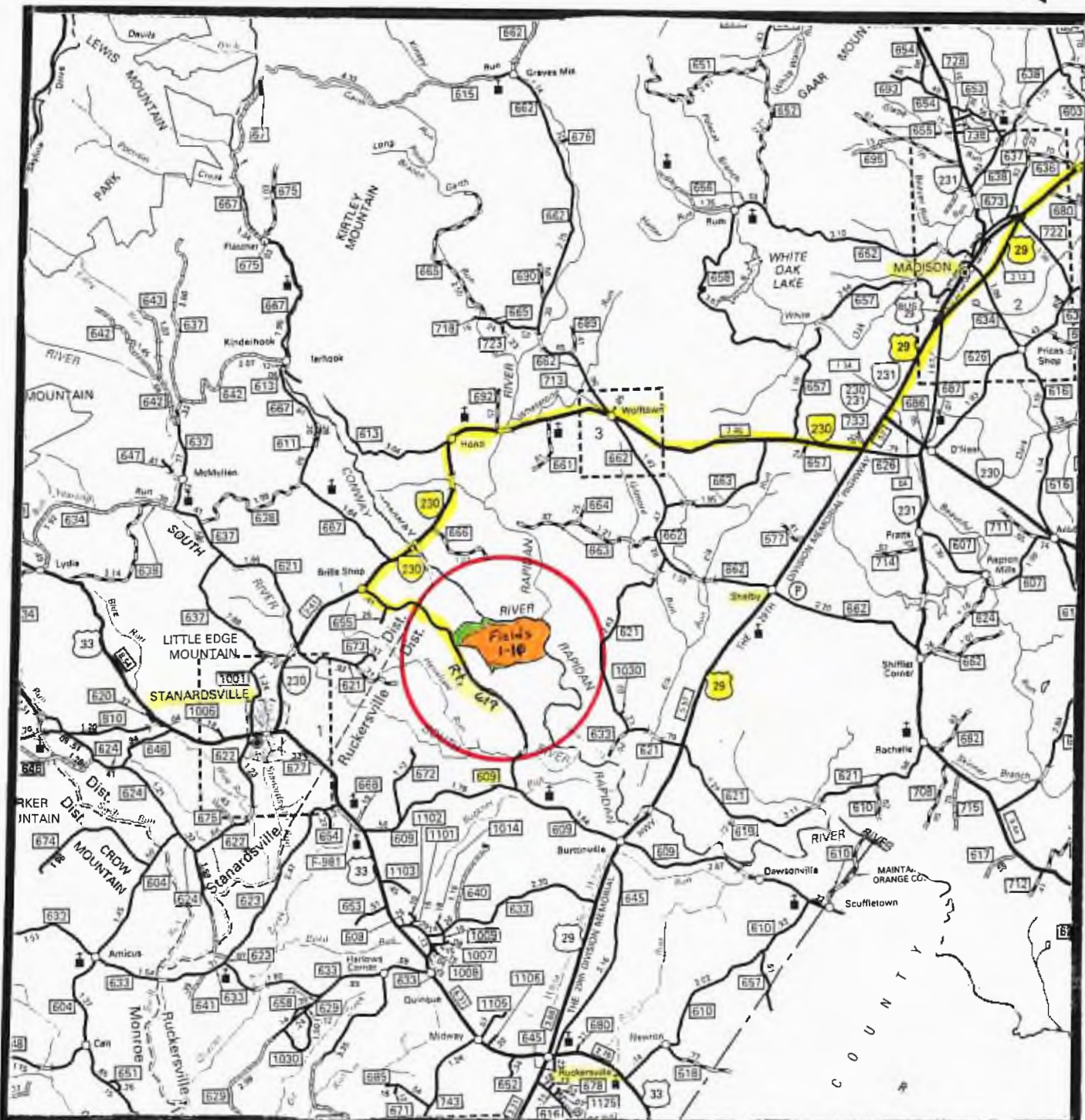
*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

*Soils with percent slope in excess of 15%*

# MAPS

# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

GRJHG 1-11

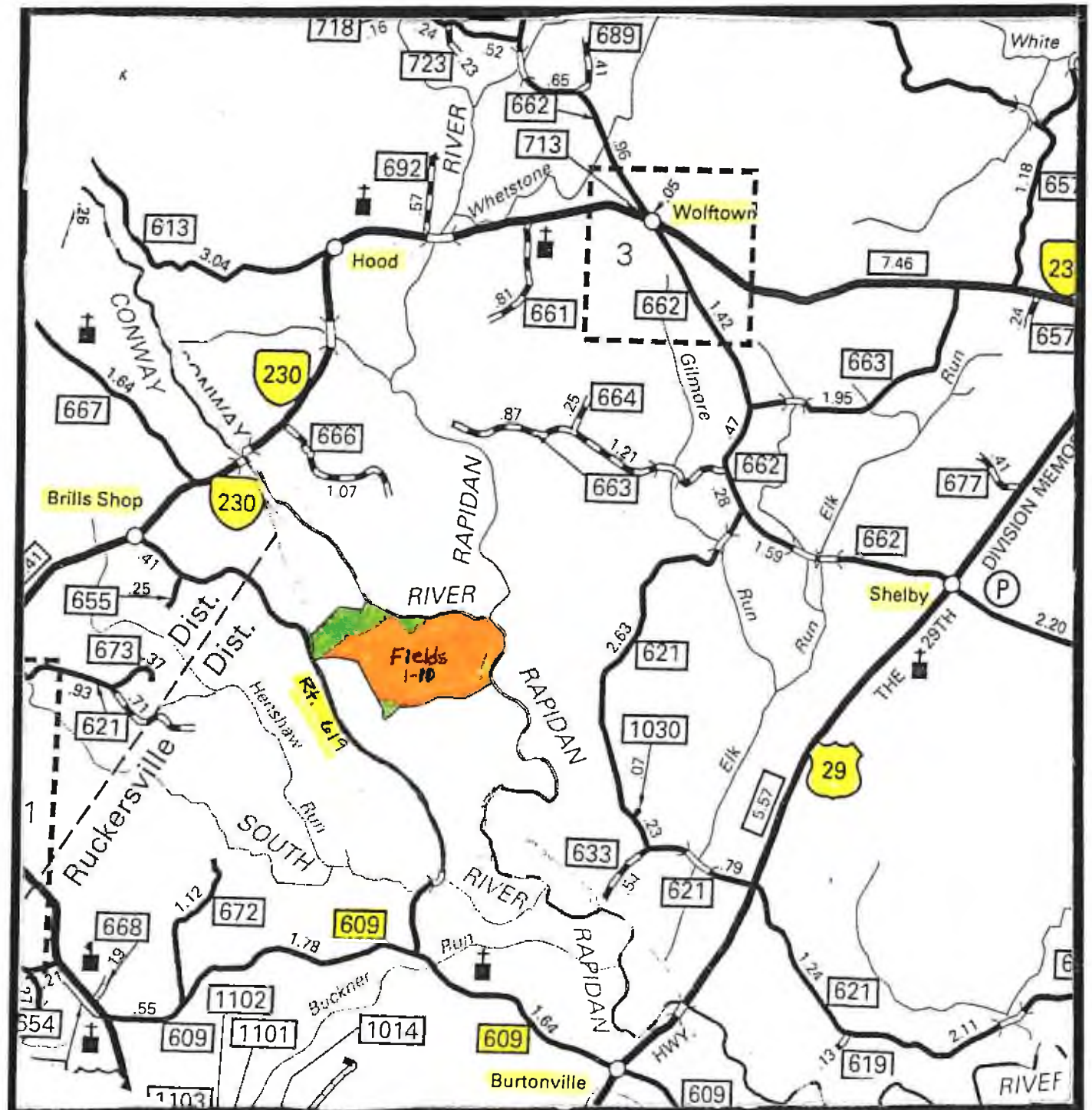
VICINITY MAP

3-12-18



# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)

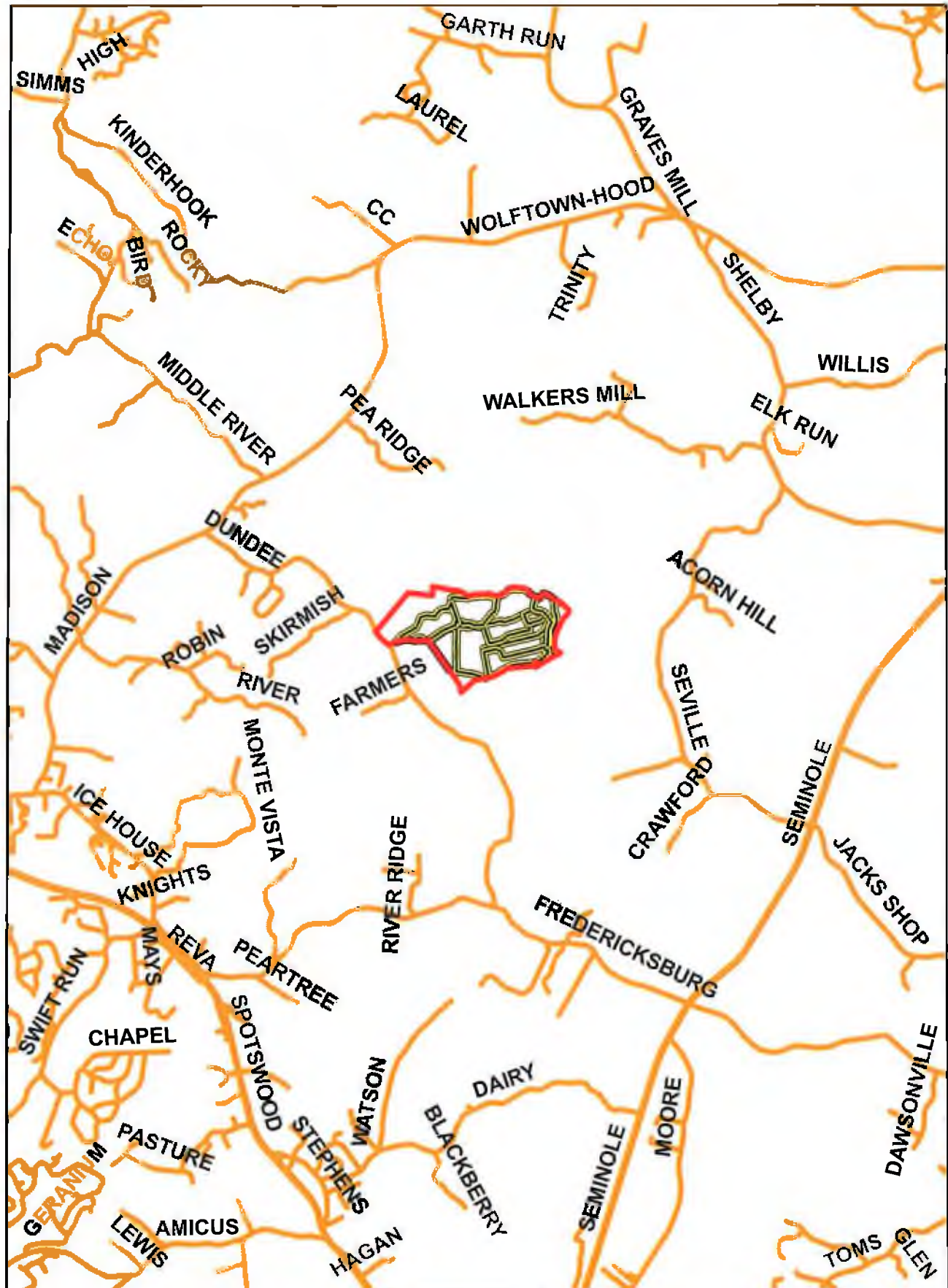


[illegible]

## Vicinity Map

1 in = 2 miles

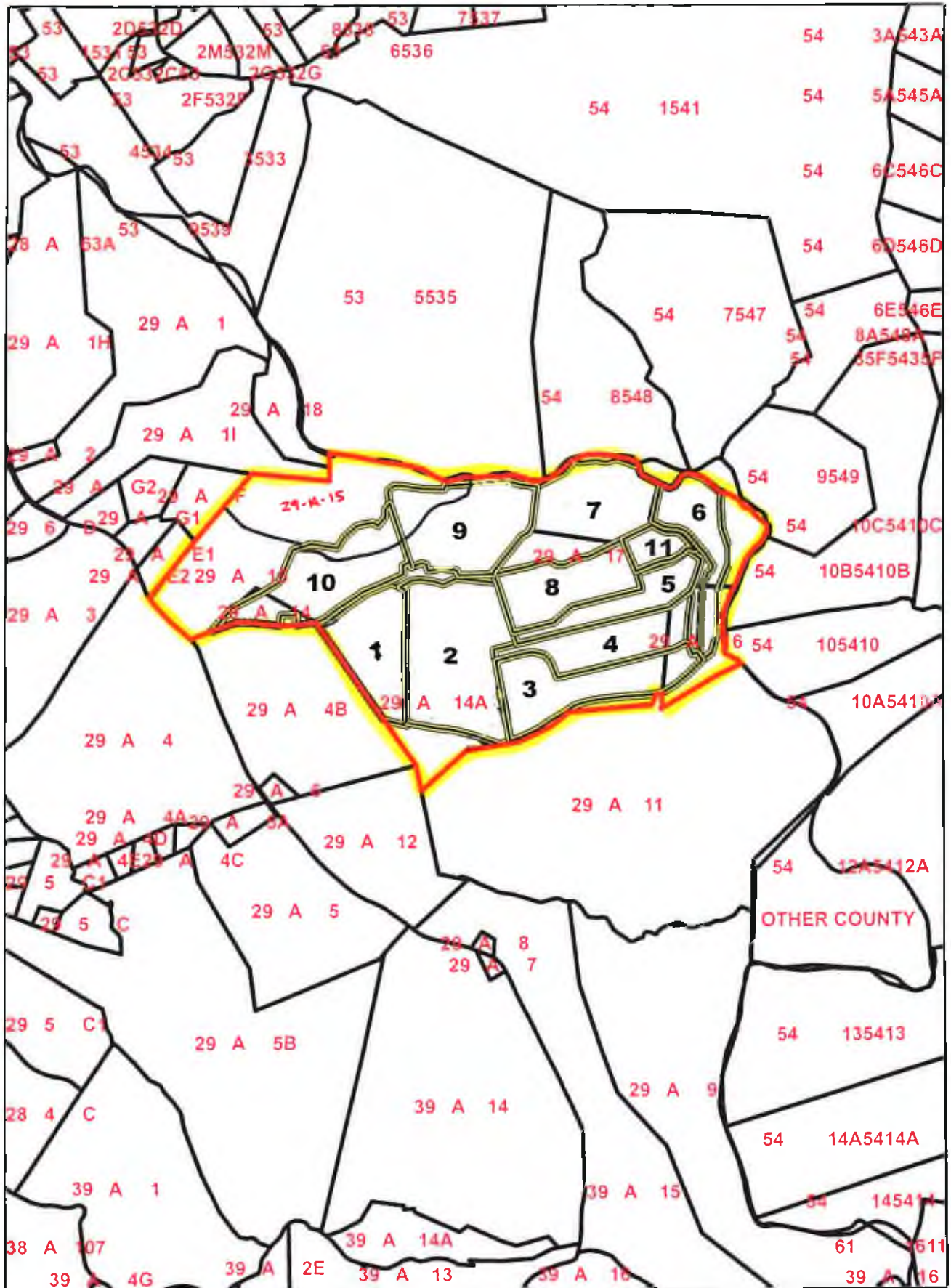




Vicinity Map

3-12-18

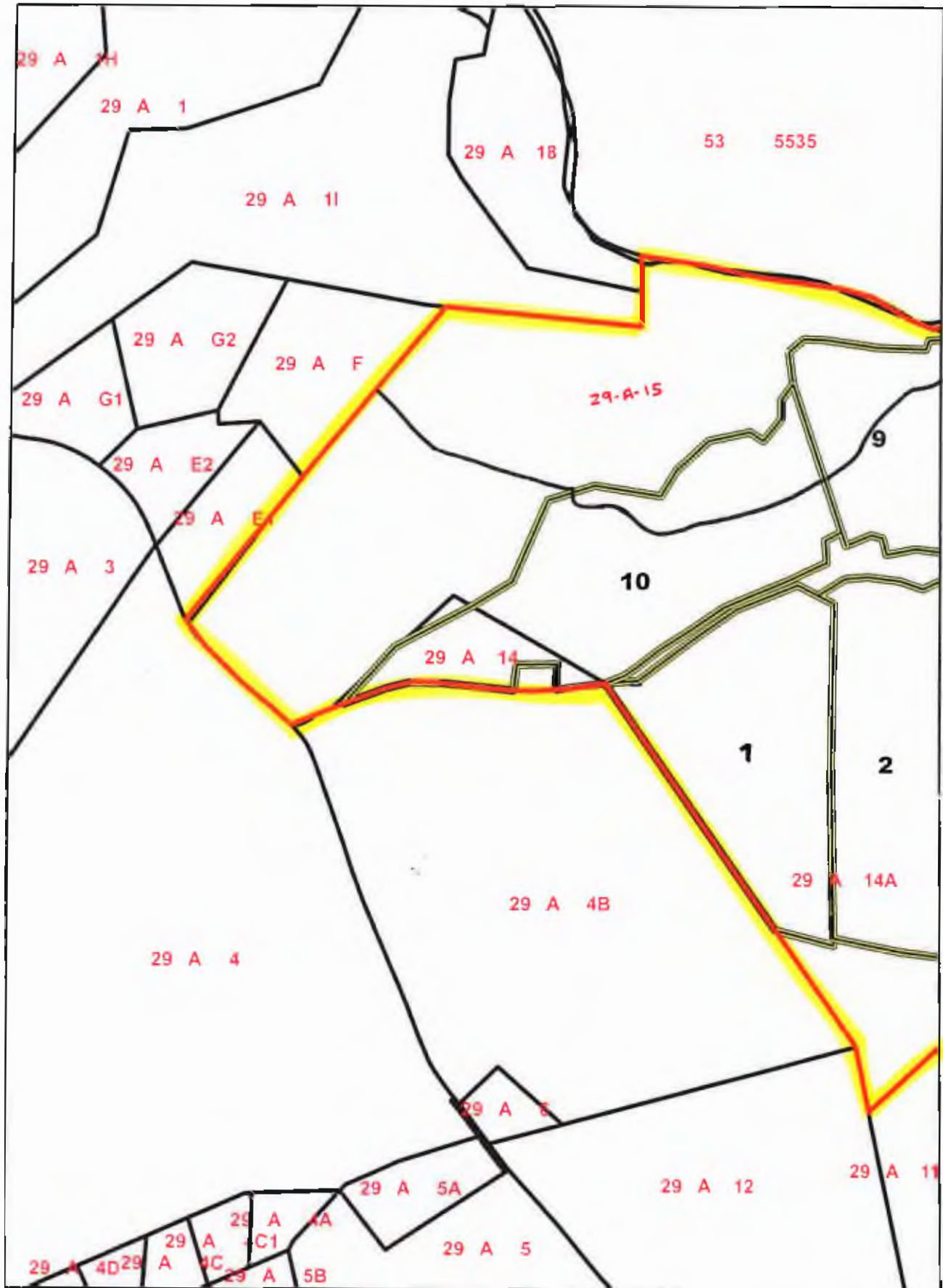
1 in = 1 miles



3-12-18

Tax Map

1 in = 1,667 feet

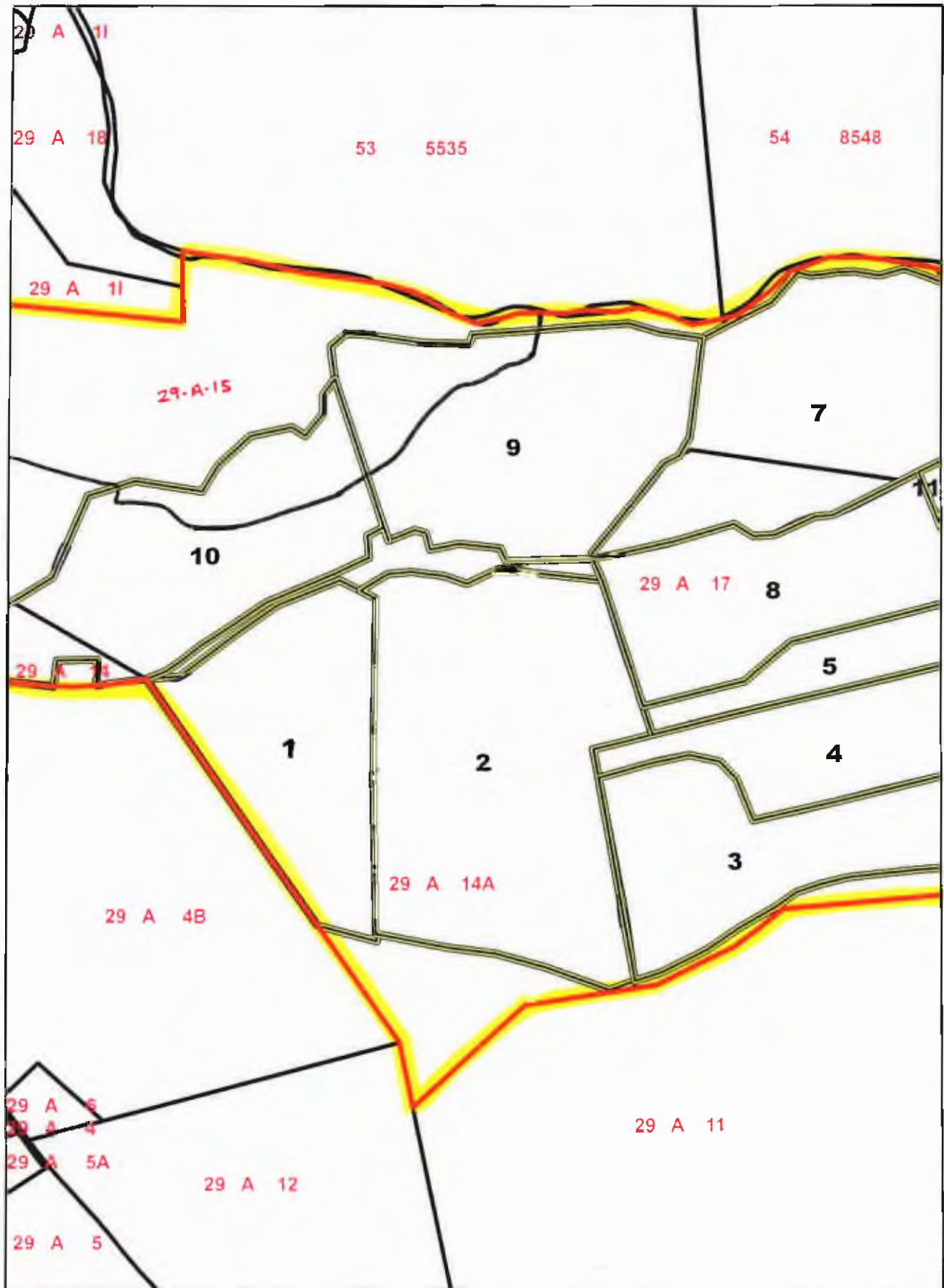


Tax Map

3-12-18

1 in = 660 feet

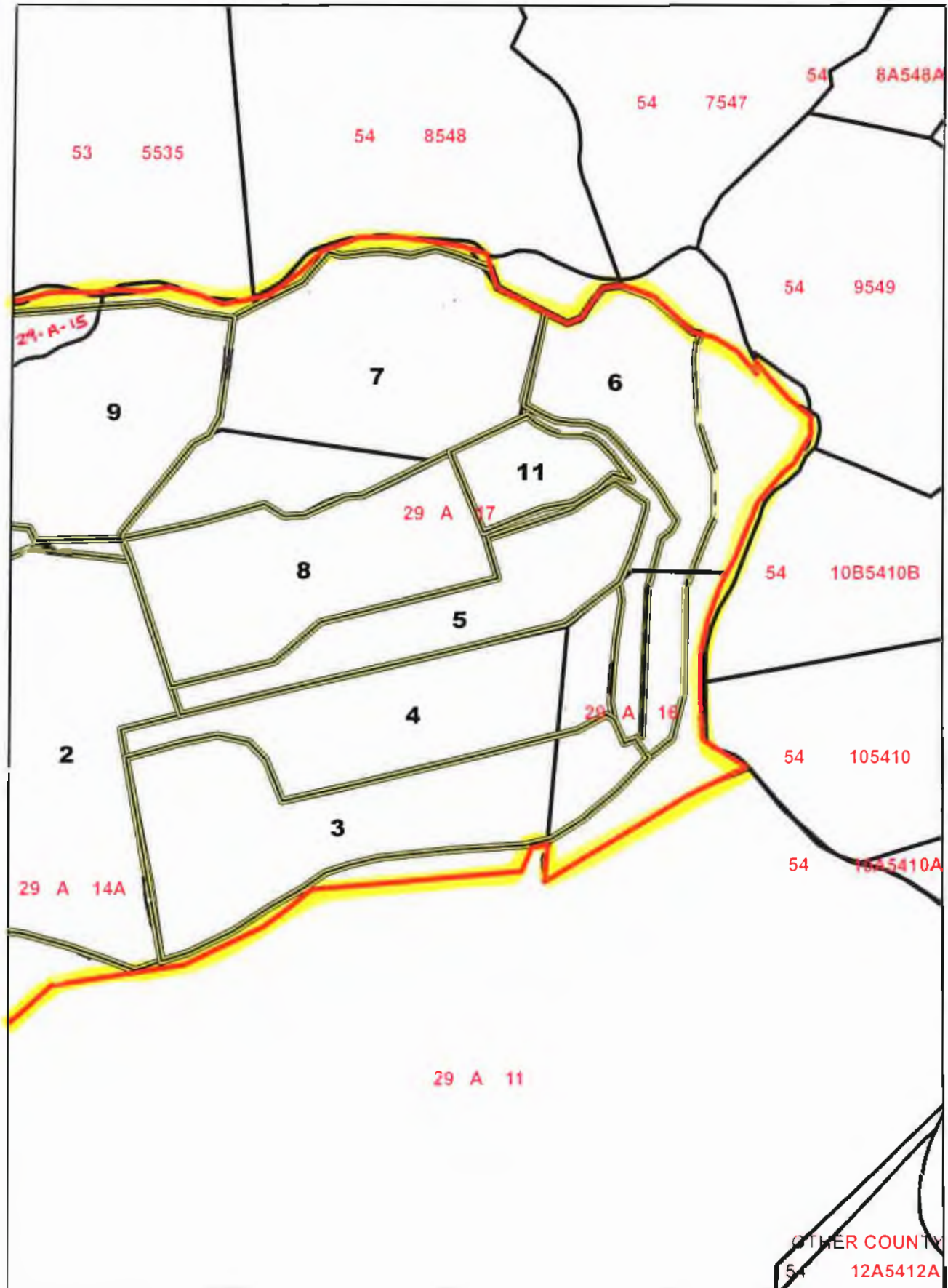




Tax Map

3-12-18

1 in = 660 feet



Tax Map

3-12-18

1 in = 660 feet

# ADJOINING LANDOWNERS

**James H. Garth**

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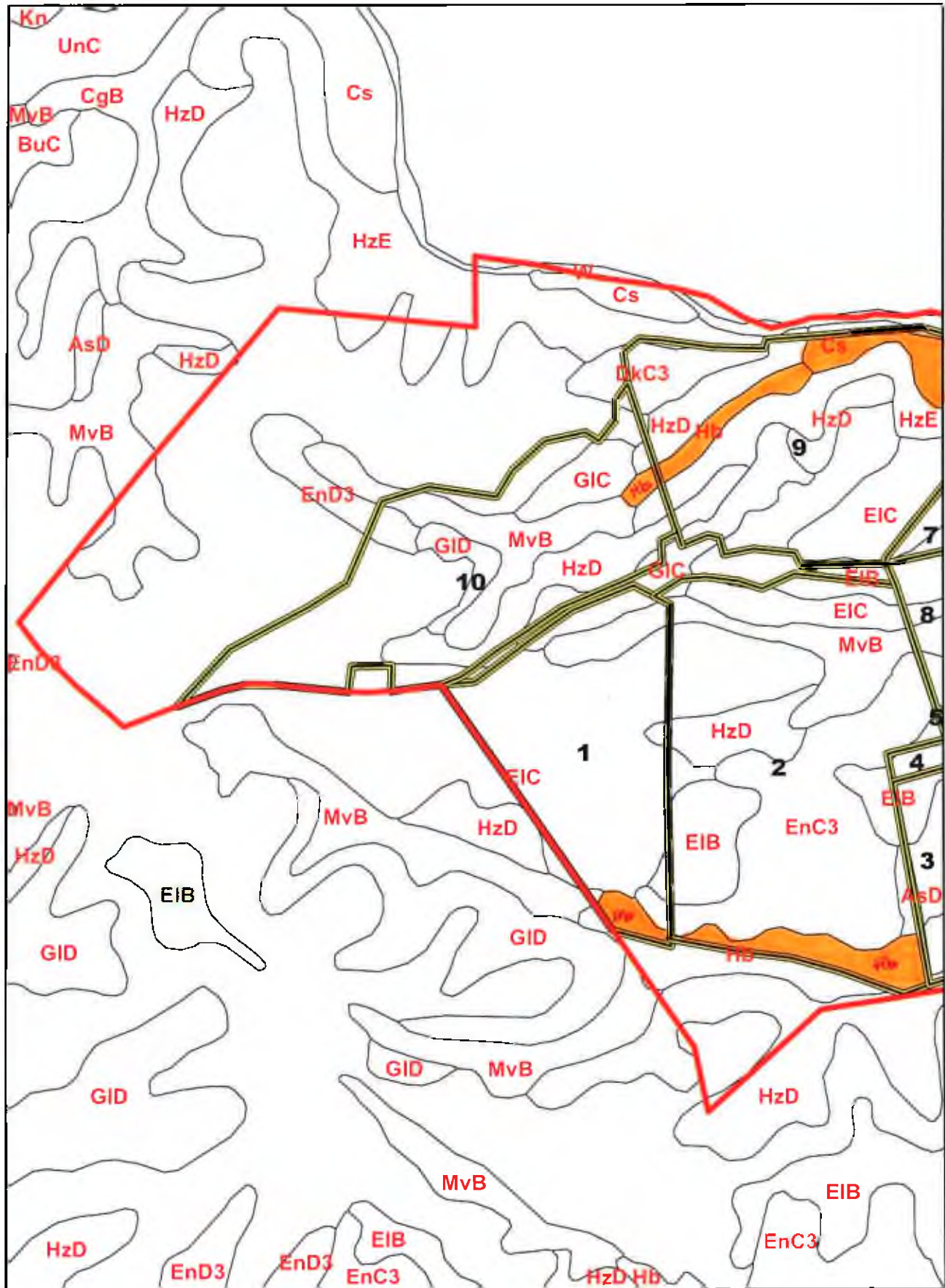
## GREENE COUNTY

---

| <b>Tax Map</b> | <b>Parcel #</b> | <b>Owner Name(s)</b>                        |
|----------------|-----------------|---|
| 29-A           | 1I              | Goodall Mountain LLC                        |
|                | E1              | Paul C. and Beverly C. Hvidding             |
|                | F               | Travis M. and Stephanie H. Bowman           |
|                | 4               | Maxwell K. and Donna J. Henshaw             |
|                | 4B              | James A. and Patricia Henshaw               |
|                | 11              | Travis Dale Baugher and Emogene Baugher     |
|                | 12              | James A. and Patricia Henshaw               |
|                | 18              | Rapidan Valley Farm LLC c/o Karen R. Sansom |

## MADISON COUNTY

|    |     |   |
|----|-----|---|
| 53 | 5   | Rapidan Valley Farm LLC                                   |
| 54 | 7   | Rapidan Valley Farm LLC                                   |
|    | 8   | Rapidan Valley Farm LLC                                   |
|    | 9   | Mary Ellen Garth L/E and James Horace or Marilyn A. Garth |
|    | 10  | Healy LLC   |
|    | 10B | Healy LLC   |



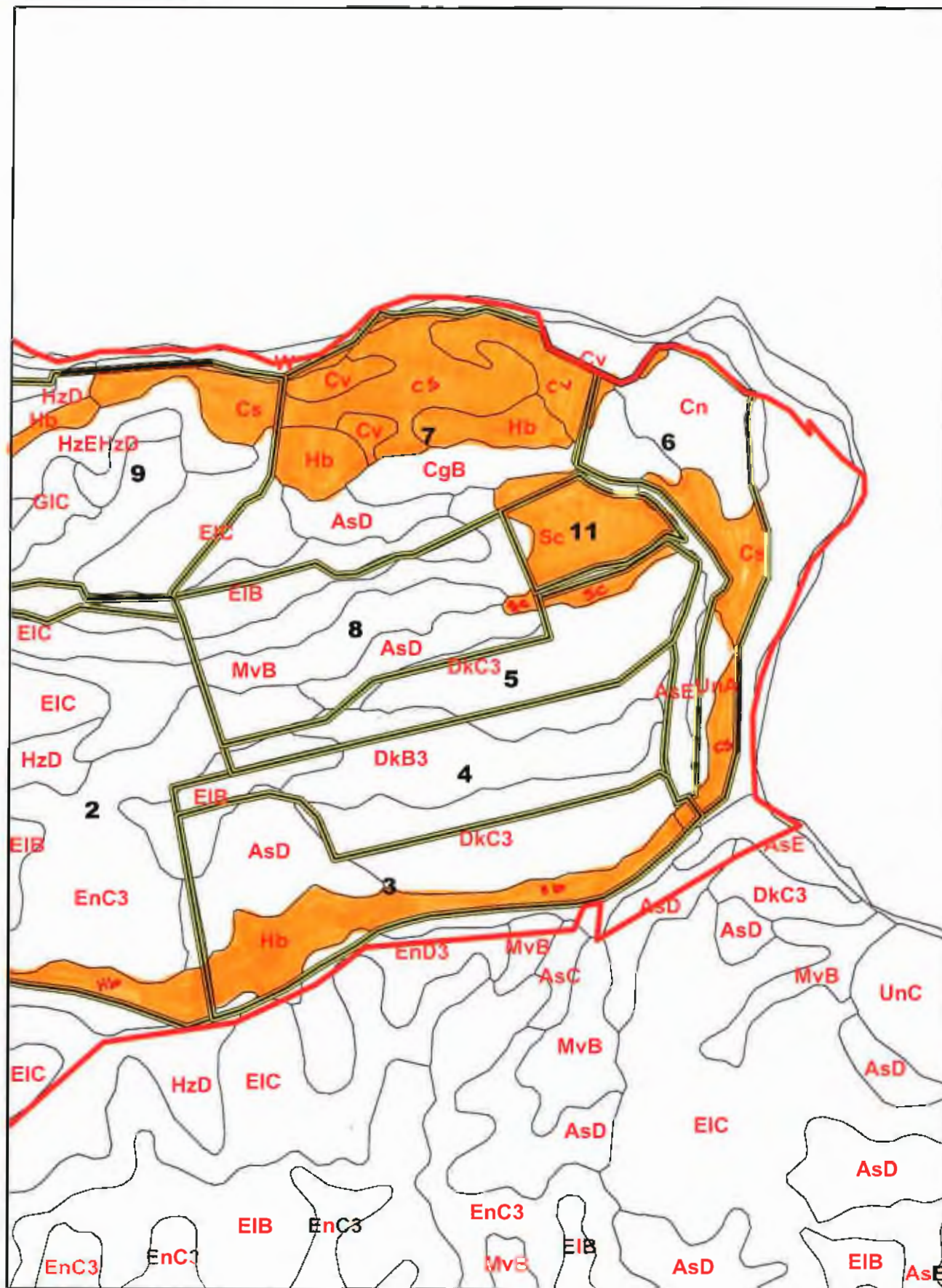
 Frequently  
Flooded

Soil Map

3-12-18

1 in = 660 feet





 Frequently Flooded

**Soil Map**

3-12-18

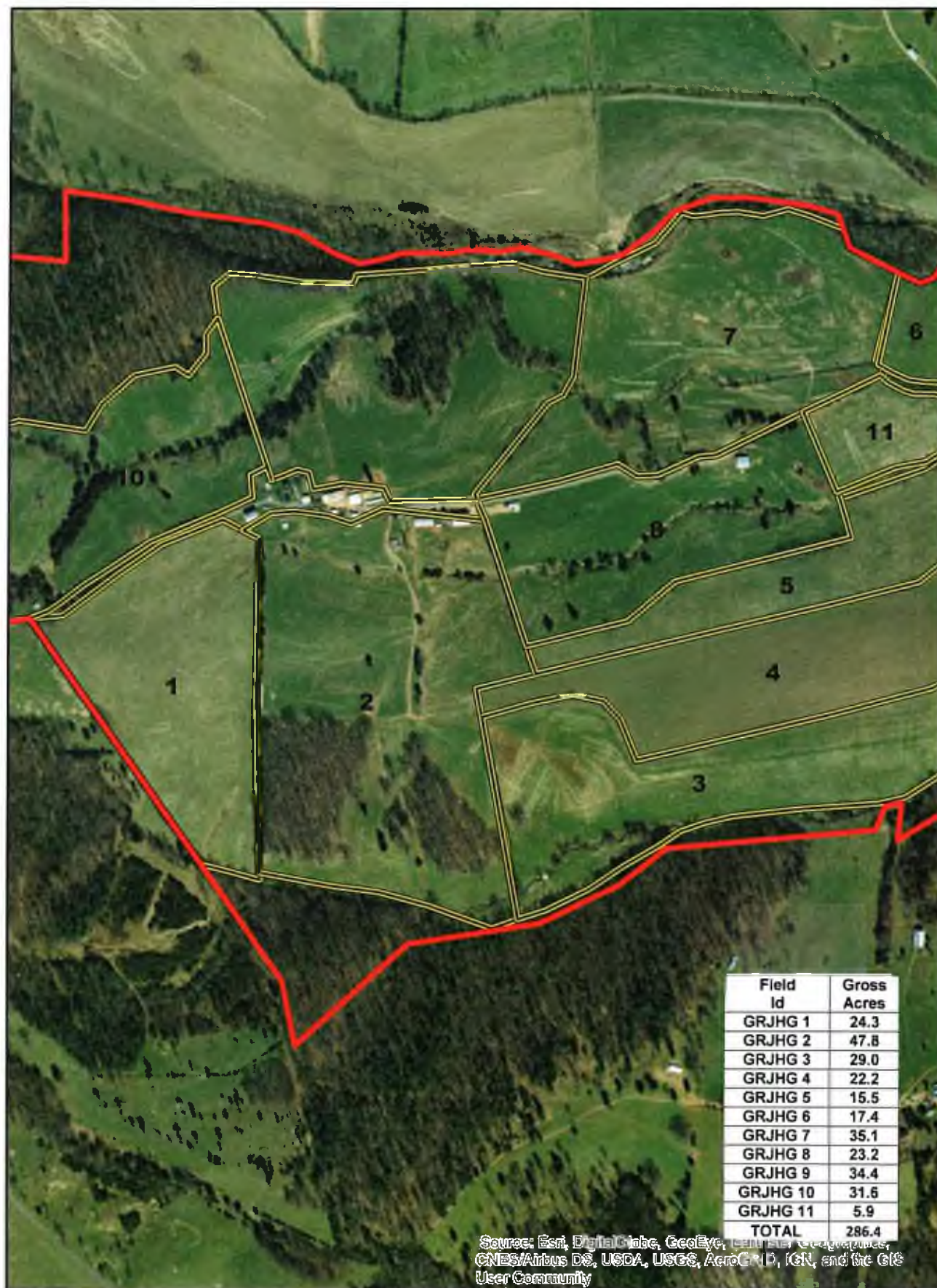
1 in = 660 feet



3-12-18

Aerial Map

1 in = 660 feet



3-12-18

Aerial Map

1 in = 660 feet



3-12-10

Aerial Map

1 in = 660 feet



United States  
Department of  
Agriculture

## Greene County, Virginia

**Tract 504**

**Farm 391**



**2014 Program Year**

Map Created October 31, 2013

**Common Land Unit**

Cropland

Non-cropland

Conservation Reserve Program

**Wetland Determination Identifiers**

Restricted Use

Limited Restrictions

Exempt from Conservation  
Compliance Provisions

Tract Boundary

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-028 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



## 2014 Program Year

Map Created October 31, 2013

### Common Land Unit

Cropland

/// Non-cropland

Conservation Reserve Program

### Wetland Determination Identifiers

- Restricted Use
- ✓ Limited Restrictions
- Exempt from Conservation Compliance Provisions

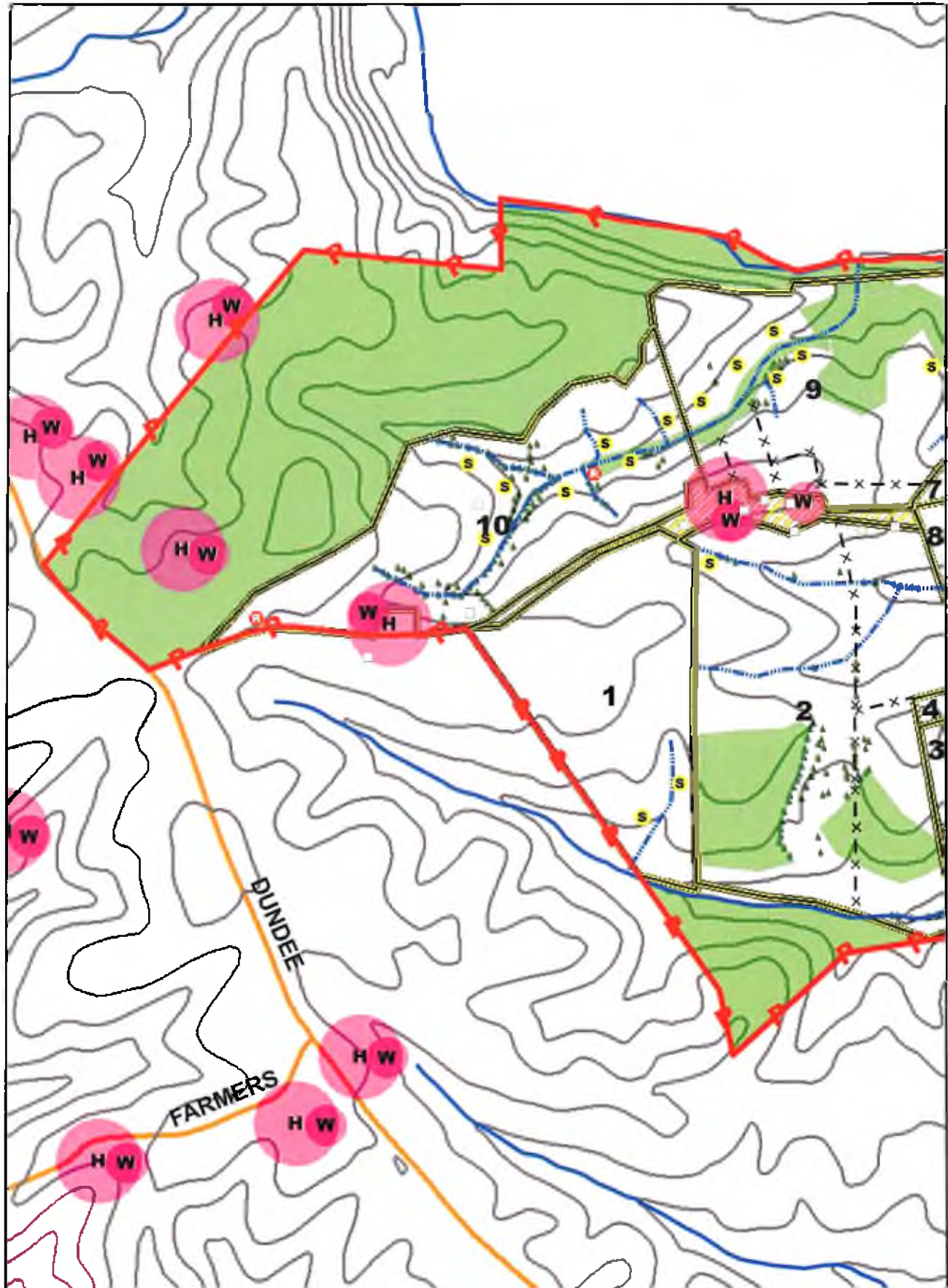
Tract Boundary

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

## Legend For Site Plan

| Symbol  | Feature                  | Minimum Setback  |
|---|--------------------------|--|
|    | House and Well           | 200 feet from occupied dwelling *<br>100 feet from water supply wells or springs |
|     | Well or Spring           | 100 feet from water supply wells or springs                                      |
|    | Streams or Surface Water | 35 feet with 35 foot vegetated buffer<br>100 feet without vegetated buffer       |
|    | Wet Spot                 |  |
|    | Trees and Woods          |  |
|    | Private Drive            |  |
|    | Rock Area/Rock Outcrop   | 25 feet from rock outcrops<br>50 feet from limestone rock outcrops               |
|    | Severely Eroded Spot     | 18 Inch minimum depth of soil  |
|    | Sink Hole                | 100 feet from open sinkholes<br>50 feet from closed sinkholes                    |
|    | State Road               | 10 feet from side of roadway   |
|    | Fence / Field Boundary   |  |
|    | Property Line            | 100 feet from property line *  |
|     | Slope                    | 15% maximum  |
|    | Hashed out Area          | No application   |

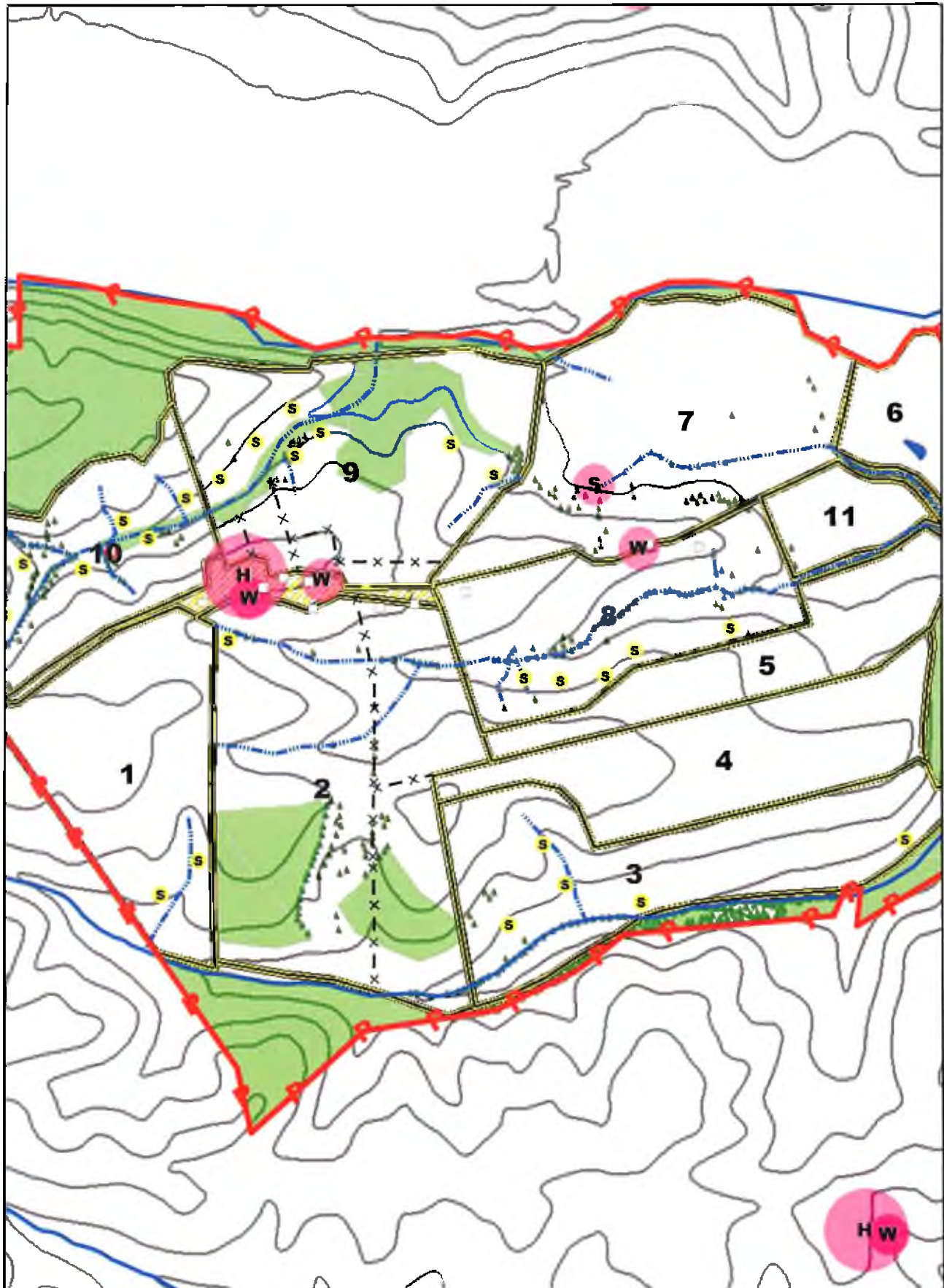
\*Buffer can be reduced or waived upon written consent from landowner.



3-12-18

Site Map

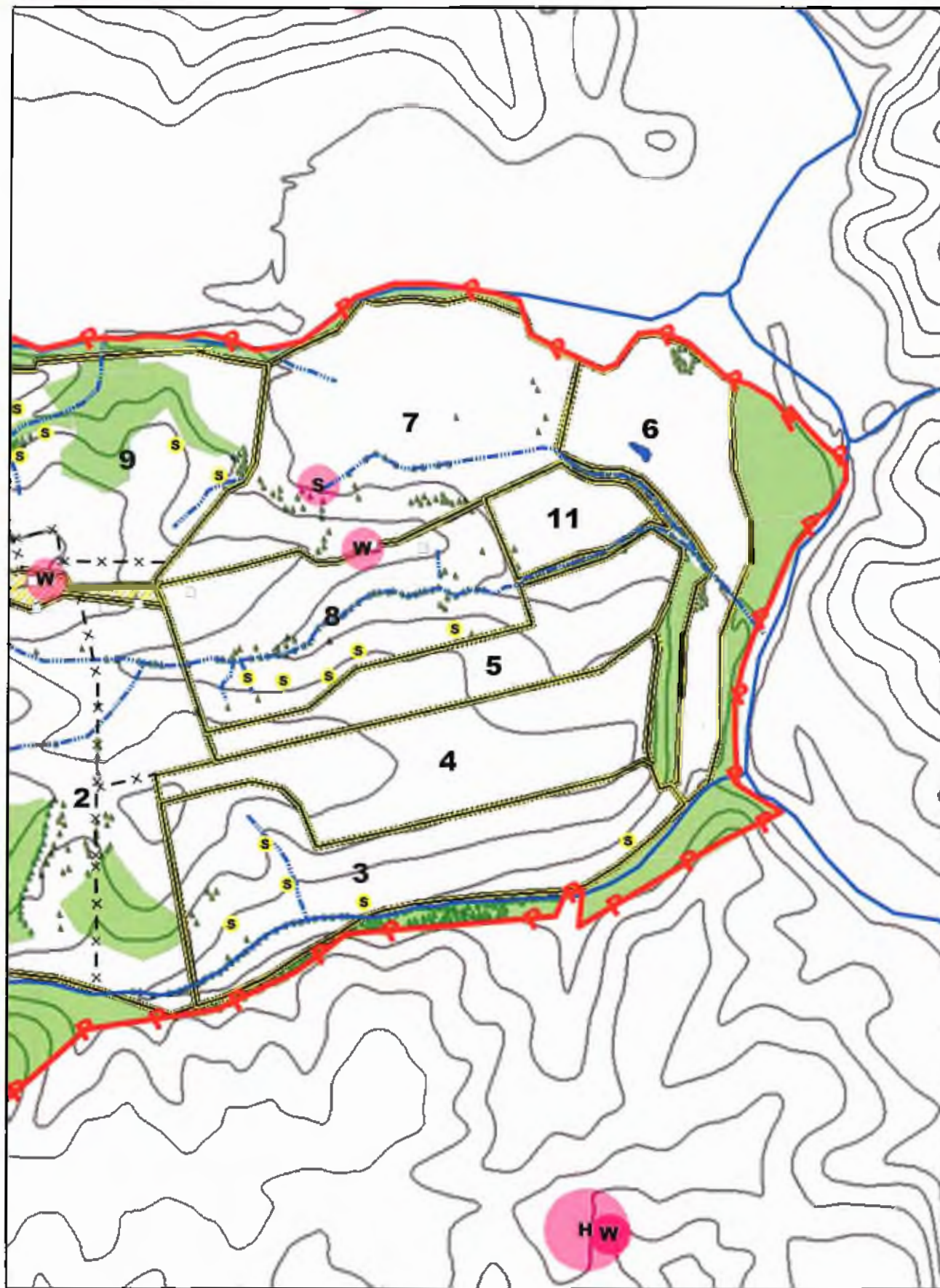
1 in = 660 feet



3-12-18

Site Map

1 in = 660 feet

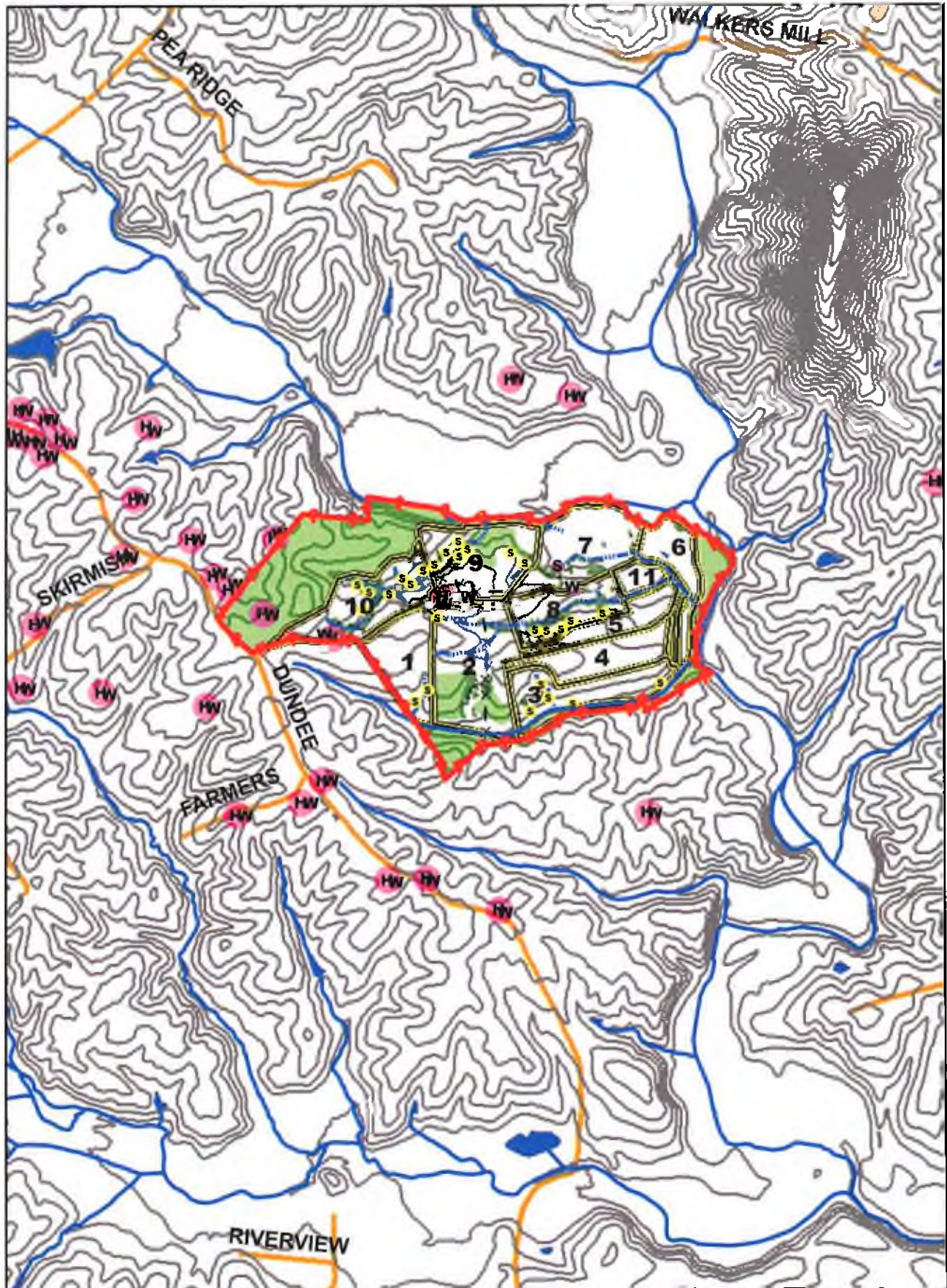


3-12-18

Site Map

1 in = 660 feet





3-12-18

Topographic Map

1 in = 2,000 feet